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ABSTRACT

The Environmental Quality Instructional Resources Center in Columbus, Ohio, acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction. In addition some materials related to pesticides, hazardous wastes, and public participation are included. Each entry in the resume section of this document provides, where appropriate: (1) the title; (2) the publication date; (3) the name(s) of the author(s); (4) a set of descriptors assigned to the entry for the purpose of indexing; (5) the number of pages; (6) an abstract describing the entry; and (7) information on the availability of the complete document. Also included in this publication are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials which meet general or highly specific requirements of their programs. This publication supplements, but does not replace, supplements 1-31. (RT)

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ED295839

Prepared by

Environmental Quality Instructional Resources Center
SMEAC Information Reference Center
The Ohio State University
1200 Chambers Road, Room 310
Columbus, OH 43212

# WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS)

## A Compilation of Abstracts to Water Quality and Water Resources Materials

Supplement 32, 1987

**U.S. DEPARTMENT OF EDUCATION**
Office of Educational Research and Improvement
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

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December 1987

SE 049 221

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# Preface

This publication contains abstracts and indexes to selected materials related to wastewater treatment and water quality education and instruction. In addition, some materials related to pesticides, hazardous wastes, and public participation are included. Also included are procedures to illustrate how instructors and curriculum developers in the water quality control field can locate instructional materials to meet very general or highly specific requirements in their programs.

Supplements to this publication will be issued periodically.

For further information about these materials contact:

Environmental Quality Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

(614) 292-6717

## I. General Information about Materials in IRIS.

### A. What types of materials are included in IRIS?

The Environmental Quality Instructional Resources Center acquires, reviews, indexes, and announces both print (books, modules, units, etc.) and non-print (films, slides, video tapes, etc.) materials related to water quality and water resources education and instruction.

Materials selected must be available from some source for announcement. When materials are not readily available we attempt to make the materials available through some national information service for easier acquisition. In a few cases the Environmental Quality Instructional Resources Center is the source of the materials.

### B. How are materials entered into IRIS?

We request that people assist us in locating materials for the system. If you have materials you believe to be useful to others, please send two copies if possible to the:

Environmental Quality (EQ) Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212

Materials are reviewed by the project staff. Availability of the materials is checked, and the materials are abstracted and indexed. The abstract describes the contents of the material. The index terms (descriptors) are concepts or terms used to describe the contents and the form of the document. (See the Subject Index for a listing of those that have been used.) The index terms are useful for locating materials manually, such as with this supplement, and also by computer.

When items are processed they are entered on the IRIS (water) computer tape. This tape is maintained by the EQ Instructional Resources Center at The Ohio State University and is used for producing tapes for other information systems, publications, and for computer searches conducted at The Ohio State University.

### C. How can a user locate materials in IRIS?

#### 1. All materials placed in IRIS (water) collection.

Materials entered into the IRIS (water) collection can be located in two ways: (1) by manual search of the 1983 compilation and supplements that follow and (2) by computer.

The compilation produced in 1983 includes the original IRIS (1979) and Supplements 1-15. It is available for $75.00.

Quarterly updates of the compilation are available by subscription on a yearly basis. Information regarding an annual subscription to IRIS (water) Quarterly Compilations can be obtained by writing to the EQ Instructional Resources Center. A subscription to the quarterly supplements for **1988** is $12.00 (within the U.S.). Price to Canada and Mexico is $14.00. Prices in other Countries is $18.00. Separate quarterly supplements are $5.00 each.

The compilation and the quarterly supplements can be scanned and the subject index can be used for manual searches.

Computer tapes of the IRIS (water) collection can also be searched. The IRIS tapes are available for searching at The Ohio State University and will again be available for computer searching at other sites in the future.

2. Materials placed in the Educational Resources Information System (ERIC)

A number of the materials processed for the IRIS (water) system are entered into the ERIC system and announced in Resources in Education (RIE). Resources in Education (RIE) is published monthly and is available from:

Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
(202) 783-3238

The current price is listed in the most recent issue of RIE. Check if a college or university library close to you has a copy. If they do not, contact the EQ Instructional Resources Center for assistance.

Many libraries subscribe to RIE. Materials announced in RIE can be searched manually each month by scanning RIE or by checking the index terms in the back of each issue. Materials announced in RIE can be searched by computer also. ERIC computer tapes may be purchased outright, but users can access them through Dialog, BRS, CompuServe and Systems Development Corporation (Orbit). For the address of search services in your state that can search these databases, contact the:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Most of the materials announced in RIE are available on microfiche (microfilm) at over 700 sites throughout the United States and the world. Users can view these materials on site at many locations to identify what they believe will be useful to them at no cost. Microfiche copies (or in most cases Xerox copies) can be ordered through the ERIC Document Reproduction Service. The address and order information is in the back of each issue of RIE. Xerox copies of many items related to water quality and resource education and training can also be ordered through the EQ Instructional Resources Center for $0.06 per page plus $1.00 per document.

For information about locations of ERIC microfiche sites in your state, contact the EQ Instructional Resources Center.

A number of journal articles processed for the IRIS (water) system are entered into the ERIC system and announced in Current Index to Journals in Education (CIJE).

Current Index to Journals in Education is published monthly and is available from:

ORYX Press
2214 North Central at Encanto
Phoenix, Arizona 85004
(602) 254-6156

Many libraries subscribe to CIJE. Materials announced in CIJE can be searched manually each month by scanning CIJE or by checking the index terms in the back of each issue. Materials announced in CIJE can be searched by computer also. Refer to the previous discussion of RIE concerning computer searches.

Materials announced in CIJE can be located in journals at many university libraries.

Many of the articles can be obtained from University Microfilms. For prices and further information write to:

UMI Article Reprint Department
300 North Zeeb Road
Ann Arbor, Michigan 48106
(800) 521-0600

## II. How to Use the Compilation

### A. Description of Information in Resumes

Each resume is listed by EW number in numerical order in the resume section. Two samples of resumes are provided to explain the data fields in the resumes. Sample resume #1 is a sample resume of an item not entered into ERIC. Sample resume #2 is a sample resume of an item entered into ERIC; a few additional data elements are in these resumes and are explained.

1. Sample resume of materials not entered in ERIC

a. IRIS NUMBER: EW006023
b. PUBLICATION DATE: FEB 81
c. TITLE: PROGRAMMED APPROACH TO WATER/MASS ANALYSES.
d. PERSONAL AUTHOR: SPENCE, GEORGE R., JR.
e. DESCRIPTOR: *DESIGN; *ENGINEERING; *EQUIPMENT; *MASS BALANCE; *PROJECT DESIGN; *POLLUTION ENGINEERING; *PIPES; *WATER RESOURCES

f. DESCRIPTIVE NOTE: 30-33P.
g. ABSTRACT: DURING THE ENGINEERING PHASE OF A PROJECT DESIGN, WATER REQUIREMENTS OFTEN CHANGE AS NEW INFORMATION BECOMES AVAILABLE. THIS ARTICLE DETAILS A PROGRAMMED APPROACH TO CALCULATION OF A WATER/MASS BALANCE WHICH PROVIDES THE USER WITH THE ABILITY TO READILY ASSESS THE IMPACT OF VARYING WATER QUALITIES, FLOW PATTERNS, AND FLOW RATES. THIS INFORMATION IS THEN USED IN DETERMINING PIPE AND EQUIPMENT SIZES.

h. AVAILABILITY: POLLUTION ENGINEERING; V13 N2

a. IRIS NUMBER -- this is the identification number sequentially assigned to materials as they are processed. Gaps in numbers mean that some items have been deleted, are being processed to add new information, or have been delayed in processing for some reason.

b. PUBLICATION DATE -- date material was published according to information on the material.

c. TITLE

d. PERSONAL AUTHOR -- person or persons who wrote, compiled, or edited the material. Up to two personal authors can be listed.

e. DESCRIPTOR -- subject terms which characterize substantive contents and form of the materials. The major terms are preceeded by an asterisk. Terms used to index all resumes in this compilation can be reviewed in the Subject Index.

f. DESCRIPTIVE NOTE -- various items of information may be contained in this section. For print materials the number of pages is usually listed. The price of the material quoted is the last time information was received from the source. Please note: Prices of nearly all materials are subject to changes and may not be accurate at the time a person orders a specific item.

g. ABSTRACT -- some early materials entered into IRIS did not have abstract information. All materials currently being entered into IRIS have an informative abstract that describes the contents of the item.

h. AVAILABILITY -- information in this field indicates where the material can be obtained.

2. Sample resume of material entered into ERIC (Resources in Education).

Items entered into ERIC (Resources in Education) will have a few additional data fields. See letter references "a" and "b" below.

IRIS ACCESSION NUMBER: EW006664
PUBLICATION DATE: 80
TITLE: RESOURCE DEVELOPMENT OF WATERSHED LANDS: A SIX WEEK SHORT COURSE.
DESCRIPTOR: ADMINISTRATION; ECOLOGICAL FACTORS; ECONOMIC FACTORS; INSTRUCTIONAL MATERIALS; *LAND USE; NATURAL RESOURCES; *POST SECONDARY EDUCATION; *TECHNICAL EDUCATION; *WATER RESOURCES; HYDROLOGY; NATURAL RESOURCES MANAGEMENT; WATER QUALITY; *WATERSHEDS

b. DESCRIPTIVE NOTE: EDRS PRICE: MF01 PLUS POSTAGE-NOT AVAILABLE IN HARD COPY DUE TO MARGINAL LEGIBILITY OF ORIGINAL DOCUMENT.

ABSTRACT: THIS COURSE WAS DESIGNED TO PROVIDE THE WATER RESOURCE TECHNICIAN OR MANAGER WITH INFORMATION WHICH WILL AID IN THE IMPLEMENTATION OF IMPROVEMENTS OF PRESENT LAND USE PRACTICES AND TO ILLUSTRATE ALTERNATIVE CONCEPTS AND TECHNIQUES IN LAND AND WATER USE FOR INCREASING AND IMPROVING THE MULTIPLE PRODUCTS OF WATERSHED LANDS. (ED 197 941)

a. AVAILABILITY: ERIC DOCUMENT REPRODUCTION SERVICE, 3900 Wheeler Avenue, Alexandria, VA 22304

a. ERIC NUMBER -- the ED number indicates the document has been processed and entered into Resources in Education. This identification number is the number to use when ordering a document or when requesting information about a document.

b. EDRS PRICE -- if material is available through the ERIC Document Reproduction Service, the price of the material when it was entered into the ERIC system and the form of the material is indicated. "MF" means microfiche; "HC" means Xerox copy. Prices are subject to change. Current prices of microfiche and paper copies are listed in the back of each issue of Resources in Education; consult the latest monthly issue for current prices. Information about ordering items can be obtained by contacting:

ERIC Document Reproduction Service (EDRS)
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

Items that are available on microfiche (MF) are contained in microfiche collections at over 700 sites where they can be read. For information on the microfiche locations in your state contact the EQ Instructional Resources Center.

B. How to Locate Desired Materials

Users can identify materials of interest by scanning the resume listings, or using the Subject Index or Author Index.

1. Subject Index

The Subject Index is designed to enable the user to search for information on either a broad subject or a narrow information concern. An EW number is included for each item listed under the subject heading. The EW number refers to the abstract entry in the resume section where complete bibliographic information, an abstract of the item, and availability information can be found.

A user can also coordinate a search by checking EW numbers that appear under two or more subject headings. For example, you could check all the EW numbers under Water Treatment and all the EW numbers under Films. EW numbers included under both subject headings would include information relevant to Water Treatment that were films. EW numbers under wastewater treatment and laboratory techniques would provide a list of materials related to Laboratory Techniques and to Wastewater Treatment. Similar techniques could be used to identify other information desired.

Users with ERIC microfiche should check the resume entry. If the document is available on microfiche from the ERIC Document Reproduction Service, the availability will be indicated by "MF" on the resume by "EDRS Price." This means libraries with ERIC microfiche collections should have the document on microfiche.

If you want a document available through the ERIC Document Reproduction Service (EDRS) see the section on ordering documents.

### 2. Author Index

If you desire to locate a document by the name of the author, you can use the Author Index. EW numbers are provided under the author in the Author Index as in the Subject Index. Some documents do not have a listed author; hence, they are not listed in this index.

## III. Correcting an Existing IRIS Record

The IRIS data base will be updated on a quarterly basis. Corrections will be made to the data base at those times. You can help improve IRIS by sending corrections for items you find to be in error.

We request that you duplicate (copy) the resume from the compilation, mark the information you believe to be wrong (or incomplete), and send the marked resume to:

EQ Instructional Resources Center
1200 Chambers Road, Room 310
Columbus, Ohio 43212
(614) 292-6717

Corrections of errors will occur in the IRIS tapes at the next update after comments are received.

If you have difficulty obtaining materials from the listed source in the AVAILABILITY section of the resume, please let us know. We will contact the sources to verify whether the materials are available, but your assistance will provide corrections between annual availability checks.

If you are the supplier of materials in IRIS, please let us know if you remove a product from your list, modify a product on your list, or change the price of the product.

## IV. Requests to Receive Information about IRIS and the IRC Bulletin

Information regarding IRIS, materials in IRIS, and modifications in the system will be announced in the IRC Bulletin. The Bulletin is issued about four times a year as information is available.

If you are not on the mailing list write to the EQ Instructional Resources Center for subscription information.

If you need information about IRIS you can also phone (614) 292-6717 with your questions.

## V. Requests for Assistance in Using IRIS

If you need help in using the IRIS manuals, phone (614) 292-6717 or write to the EQ Instructional Resources Center. Staff are normally available from about 8:30 a.m. to 4:30 p.m. Eastern time to answer your questions.

## VI. How to Locate Other Relevant Educational Materials

A number of people have requested information related to such areas as management, basic skills (reading, mathematics, writing) human relations, contract negotiations, and other topics. The EQ Instructional Resources Center has developed or obtained some materials in these areas.

Another excellent source of information for many educational concerns is the ERIC System.

ERIC is a national information system designed and developed by the U.S. Office of Education, and now supported and operated by the National Institute of Education (NIE), for providing ready access to descriptions of exemplary programs, research and development efforts, and related information that can be used in developing more effective educational programs.

There are 16 Clearinghouses in the nationwide ERIC network. Each specializes in a different, multi-discipline, educational area. Each searches out pertinent documents.

The ERIC Clearinghouses have responsibility within the network for acquiring the significant educational literature within their particular areas, selecting the highest quality and most relevant material, processing (i.e., cataloging, indexing, abstracting) the selected items for input to the data base, and also for providing information analysis products and various user services based on the data base.

The 16 ERIC Clearinghouses are listed on the next few pages, together with addresses, telephone numbers, and brief scope notes describing the areas they cover. You can contact them for assistance in locating information relevant to their scope notes.

A. ERIC Clearinghouse on Adult, Career, and Vocational Education
The Ohio State University
National Center for Research in Vocational Education
1960 Kenny Road
Columbus, Ohio 43210
Telephone: (614) 486-3655

Career education, formal and informal at all levels, encompassing attitudes, self-knowledge, decision-making skills, general and occupational knowledge, and specific vocational and occupational skills; adult and continuing education, formal and informal, relating to occupational, family, leisure, citizen, organizational, and retirement roles; vocational and technical education, including new sub-professional fields, industrial arts, and vocational rehabilitation for the handicapped.

B. ERIC Clearinghouse on Counseling and Personnel Services
University of Michigan
School of Education, Room 2108
Ann Arbor, Michigan 48109
Telephone: (313) 764-9492

Preparation, practice, and supervision of counselors at all educational levels and in all settings, theoretical development of counseling and guidance, use and results of personnel procedures such as testing, interviewing, disseminating, and analyzing such information, group work and case work; nature of pupil, student, and adult characteristics; personnel workers and their relation to career planning, family consultations, and student orientation activities.

C. ERIC Clearinghouse on Elementary and Early Childhood Education
University of Illinois
College of Education
805 West Pennsylvania Avenue
Urbana, Illinois 61801
Telephone: (217) 333-1386

Prenatal factors, parental behavior; the physical, psychological, social, educational, and cultural development of children from birth through the primary grades; educational theory, research and practice related to the development of young children.

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D. ERIC Clearinghouse on Educational Management
University of Oregon
Library, Room 108
1787 Agate Street
Eugene, Oregon 97403
Telephone: (503) 686-5043

Leadership, management, and structure of public and private educational organizations; practice and theory of administration; preservice and inservice preparation of administrators, tasks and processes of administration, methods and varieties of organization, organizational change, and social context of the organization.

Sites, buildings, and equipment for education; planning, financing, constructing, renovating, equipping, maintaining, operating, insuring, utilizing, and evaluating educational facilities.

E. ERIC Clearinghouse on Handicapped and Gifted Children
Council for Exceptional Children
1920 Association Drive
Reston, Virginia 22091
Telephone: (703) 620-3660

Aurally handicapped, visually handicapped, mentally handicapped, physically handicapped, emotionally disturbed, speech handicapped, learning disabilities, and the gifted; behavioral, psychomotor, and communication disorders, administration of special education services; preparation and continuing education of professional and paraprofessional personnel; preschool learning and development of the exceptional; general studies on creativity.

F. ERIC Clearinghouse on Higher Education
George Washington University
One Dupont Circle, NW, Suite 630
Washington, DC 20036
Telephone: (202) 296-2597

Various subjects relating to college and university students, college and university conditions and problems, college and university programs; curricular and instructional problems and programs, faculty, institutional research; federal programs, professional education (medical, law, etc.), graduate education, university extension programs, teaching-learning, planning, governance, finance, evaluation, interinstitutional arrangements, and management of higher educational institutions.

G. ERIC Clearinghouse on Information Resources
Syracuse University
School of Education
Huntington Hall, Room 030
150 Marshall Street
Syracuse, New York 13210
Telephone: (315) 423-3640

Management, operation, and use of libraries; the technology to improve their operation and the education, training, and professional activities of librarians and information specialists. Educational techniques involved in microteaching, systems analysis, and programmed instruction employing audiovisual teaching aids and technology, such as television, radio, computers, and cable television, communication satellites, microforms, and public television.

H. ERIC Clearinghouse for Junior Colleges
University of California at Los Angeles (UCLA)
Mathematical Sciences Building, Room 8118
405 Hilgard Avenue
Los Angeles, California 90024
Telephone: (213) 825-3931

Development, administration, and evaluation of public and private community junior colleges. Junior college students, staff, curricula, programs, libraries, and community services.

I. ERIC Clearinghouse on Languages and Linguistics
Center for Applied Linguistics
1118 "22nd" Street, NW
Washington, DC 20037
Telephone: (202) 429-9551

Languages and linguistics. Instructional methodology, psychology of language learning, cultural and intercultural content, application of linguistics, curricular problems and developments, teacher training and qualifications, language sciences, psycholinguistics, theoretical and applied linguistics, language pedagogy, bilingualism, and commonly taught languages including English and speakers of other languages.

J. ERIC Clearinghouse on Reading and Communication Skills
National Council of Teacher of English
1111 Kenyon Road
Urbana, Illinois 61801
Telephone: (217) 328-3870

Reading, English, and communication skills, preschool through college. Educational research and development in reading, writing, speaking, and listening. Identification, diagnosis, and remediation of reading problems. Speech communication--forensics, mass communication, interpersonal and small group interaction, interpretation, rhetorical and communication theory, instruction development, speech sciences, and theater. Preparation of instructional staff and related personnel in these areas.

All aspects of reading behavior with emphasis on physiology, psychology, sociology, and teaching. Instructional materials, curricula, tests and measurement, preparation of reading teachers and specialists, and methodology at all levels. Role of libraries and other agencies in fostering and guiding reading. Diagnostic and remedial services in school and clinical settings.

K. ERIC Clearinghouse on Rural Education and Small Schools
New Mexico State University
Box 3AP
Las Cruces, New Mexico 88003
Telephone: (505) 646-2623

Education of Indian Americans, Mexican Americans, Spanish Americans, and migratory farm workers and their children; outdoor education; economic, cultural, social, or other factors related to educational programs in rural areas and small schools; disadvantaged of rural and small school populations.

L. ERIC Clearinghouse for Science, Mathematics and Environmental Education
The Ohio State University
1200 Chambers Road - Room 310
Columbus, Ohio 43212
Telephone: (614) 292-6717

All levels of science, mathematics, and environmental education; development of curriculum and instructional materials; media applications; impact of interest, intelligence, values, and concept development upon learning; preservice and inservice teacher education and supervision.

M. ERIC Clearinghouse for Social Studies/Social Science Education
Indiana University
Social Studies Development Center
2805 East 10th St.
Bloomington, IN 47405
Telephone: (812) 335-3838

All levels of social studies and social science; all activities relating to teachers; content of disciplines; applications of learning theory, curriculum theory, child development theory, and instructional theory; research and development programs; special needs of student groups; education as a social science; social studies/social science and the community.

N. ERIC Clearinghouse on Teacher Education
American Association of Colleges for Teacher Education (AACTE)
One Dupont Circle, NW, Suite 610
Washington, DC 20036
Telephone: (202) 293-2450

School personnel at all levels, all issues from selection through preservice and inservice preparation and training to retirement; curricula, educational theory and philosophy; general education not specifically covered by Educational Management Clearinghouse; Title XI NDEA Institutes not covered by subject speciality in other ERIC Clearinghouses; all aspects of physical education.

O. ERIC Clearinghouse on Tests, Measurement, and Evaluation
Educational Testing Service (ETS)
Rosedale Road
Princeton, New Jersey 08541
Telephone: (609) 734-5176

Tests and other measurement devices; evaluation procedures and techniques; application of tests, measurement, or evaluation in educational projects of programs.

P. ERIC Clearinghouse on Urban Education
Teachers College, Columbia University
Institute for Urban and Minority Education
Box 40
525 West 120th Street
New York, New York 10027
Telephone: (212) 678-3433

The relationship between urban life and schooling; the effect of urban experiences and environments from birth onward; the academic, intellectual, and social performance of urban children and youth from grade three through college entrance (including the effect of self concept, motivation, and other affective influences), education of urban, Puerto Rican and Asian American populations, and rural and urban black populations; programs and practices which provide learning experiences designed to meet the special needs of diverse populations served by urban schools and which build upon their unique as well as their common characteristics, structural changes in the classroom, school, school system, and community and innovative instructional practices which directly affect urban children and youth; programs, practices, and materials related to economic and ethnic discrimination, segregation, desegregation, and integration in education; issues, programs, practices, and materials related to redressing the curriculum imbalance in the treatment of ethnic minority groups.

Q. Educational Resources Information Center
Office of Educational Research and Improvement (OERI)
555 New Jersey, Ave. NW
Room 522
Washington, DC 20208
Telephone: (202) 626-9240

There are other sources of educational information in many states. Included are information dissemination units in the state departments of education, intermediate education units, and local education units. In many cases, a local school administrator or school librarian can help you locate assistance.

## VII. How to Order Materials

The AVAILABILITY field in the resume indicates where materials can be obtained. A few of the sources are explained.

A. A number of audiovisual materials can be obtained on a rental basis or purchased from the EQ Instructional Resources Center. Most items previously available from the NTOTC office are available from the EQ Instructional Resources Center at The Ohio State University. For further information write or call.

B. Some of the materials are available through the ERIC Document Reproduction Service. MF (microfiche) are 4" x 6" sheets of microfilm; up to 96 pages of text can be reproduced on one sheet. HC (paper copy) is a reproduction of the document in paper form at the original size.

Order forms for these materials can be obtained from:

ERIC Document Reproduction Service
3900 Wheeler Avenue
Alexandria, VA 22304
(800) 227-3742

C. The EQ Instructional resources Center will provide Xerox copies of materials that are not copyrighted for $1.00 per document plus $0.06 per page.

If you can not obtain materials that are listed or have difficulty obtaining materials, please contact the EQ Instructional Resources Center. We can provide assistance in obtaining materials from some sources. If materials become unavailable, we will remove them from the IRIS data base.

# RESUME SECTION

IRIS ACCESSION NUMBER: EW013156

PUBLICATION DATE: 85

TITLE: RCRA AND HSWA: 1985 INDEX TO HAZARDOUS WASTE REGULATIONS.

DESCRIPTOR: *HAZARDOUS WASTES; *HSWA; *INDEXES; *REGULATIONS; *RCRA; *SOLID WASTES

DESCRIPTIVE NOTE: 230P. PRICE: $27.00

ABSTRACT: THIS BOOK IS A COMPREHENSIVE KEYWORD INDEX TO THE RCRA HAZARDOUS WASTE REGULATIONS AND THE HAZARDOUS AND SOLID WASTE AMENDMENTS. THE PUBLICATION COVERS ALL REGULATIONS THAT WERE IN EFFECT AS OF JUNE 30, 1985. THE SECTIONS THAT COVER THE AMENDMENTS INCLUDE: (1) AN ANALYSIS OF THE REQUIREMENTS; (2) A COMPREHENSIVE TABLE OF DEADLINES; (3) THE FULL TEXT OF THE STATUTE; AND (4) A COMPLETE KEYWORD INDEX TO THE STATUTE.

AVAILABILITY: MC COY AND ASSOCIATES, 13131 WEST CEDAR DR., LAKEWOOD, CO 80228

IRIS ACCESSION NUMBER: EW013157

PUBLICATION DATE: 84

TITLE: HAZARDOUS CHEMICALS, INFORMATION AND DISPOSAL GUIDE, SECOND EDITION.

PERSONAL AUTHOR: ARMOUR, MARGARET-ANN

DESCRIPTOR: *CHEMICALS; *CHEMICAL HANDLING; *HAZARDOUS MATERIALS; *HEALTH HAZARDS; *LABORATORY PROCEDURES; *SAFETY; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 287P. PRICE: $20.00

ABSTRACT: THIS BOOK IS A HANDY SOURCE OF PHYSICAL AND CHEMICAL PROPERTIES, HEALTH HAZARDS, AND HANDLING ADVICE FOR 220 COMMON LABORATORY CHEMICALS. ITS CHIEF CHANGE SINCE THE FIRST EDITION IS THE INCLUSION OF LABORATORY WASTE DISPOSAL PROCEDURES THAT HAVE BEEN TESTED IN THE UNIVERSITY OF ALBERTA LABORATORIES.

AVAILABILITY: LAB STORE, MILWAUKEE, WI

IRIS ACCESSION NUMBER: EW013162

TITLE: THE GREAT LAKES DIRECTORY OF NATURAL RESOURCES AGENCIES AND ORGANIZATIONS, 1984-85.

DESCRIPTOR: *AGENCIES; *DIRECTORIES; *GREAT LAKES; *NATURAL RESOURCES; *ORGANIZATIONS

DESCRIPTIVE NOTE: PRICE: $20.00

ABSTRACT: THIS PUBLICATION IS A READY REFERENCE SOURCE TO OVER 720 OF THE REGION'S PUBLIC AND PRIVATE AGENCIES AND ORGANIZATIONS INVOLVED IN GREAT LAKES MANAGEMENT. CONVENIENTLY FORMATTED AND CROSS-REFERENCED, IT ENSURES QUICK ACCESS TO LISTINGS WHICH INCLUDE THE AGENCY/ORGANIZATION'S ADDRESS, TELEPHONE NUMBER, CONTACT PERSON, PURPOSE, MEMBERSHIP, PROGRESS, AUTHORITY, JURISDICTION AND PUBLICATIONS.

AVAILABILITY: THE CENTER FOR THE GREAT LAKES, 435 N. MICHIGAN AVE., SUITE 1733, CHICAGO, IL 60611

IRIS ACCESSION NUMBER: EW013171

PUBLICATION DATE: 84

TITLE: EMERGENCY RESPONSE TO HAZARDOUS MATERIALS INCIDENTS.

PERSONAL AUTHOR: DEPOL, DENNIS R.; CHEREMISINOFF, PAUL N.

DESCRIPTOR: *EMERGENCY RESPONSES; *GUIDEBOOKS; *HAZARDOUS MATERIALS; LEGISLATION; PLANNING; REGULATIONS

DESCRIPTIVE NOTE: 121P. PRICE: $19.00

ABSTRACT: THIS GUIDEBOOK GIVES CONCISE, PRACTICAL INFORMATION ON PLANNING FOR AND DEALING WITH THE HAZARDOUS MATERIALS EMERGENCIES. INITIAL CHAPTERS PRESENT BACKGROUND INFORMATION ON THE PROBLEM, INCLUDING AN EXPLANATION OF LAWS AND REGULATIONS. THE REMAINING CHAPTERS PROVIDE INFORMATION ON PLANNING, EMERGENCY INFORMATION SYSTEMS, IDENTIFICATION AND EVALUATION OF HAZARDOUS MATERIALS, EVACUATION STEPS, AND PROCEDURES FOR RESPONSE. RESPONSE PROCEDURES ARE GIVEN FOR EMERGENCIES INVOLVING DIFFERENT TYPES OF MATERIALS. SOME OF THE SPECIFIC TOPICS DISCUSSED INCLUDE CONTINGENCY PLANNING. LIQUID EMERGENCY RESPONSE PROCEDURES, AND RADIOACTIVE EMERGENCY PROCEDURES.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVENUE, BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW013172

PUBLICATION DATE: 80

TITLE: WASTEWATER ENGINEERING DESIGN FOR UNSEWERED AREAS.

PERSONAL AUTHOR: LAAK, REIN

DESCRIPTOR: *DESIGN; *ENGINEERING; *FACILITIES; *ONSITE TREATMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 172P. PRICE: $19.50

ABSTRACT: THIS PUBLICATION DETAILS ONSITE, ENERGY-EFFICIENT, LOW-COST WASTEWATER DISPOSAL SYSTEMS FOR INDIVIDUAL HOMES, GROUPS OF DWELLINGS, COMMERCIAL, AND SOME INDUSTRIAL APPLICATIONS. A VARIETY OF PRETREATMENT DESIGNS, SUCH AS A PASSIVE DENITRIFICATION SYSTEM, HIGH GROUNDWATER SEEPAGE FIELDS, A METHANE GENERATOR DESIGN AND VARIOUS LAND DISPOSAL SCHEMES ARE OUTLINED.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVENUE, BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW013173

PUBLICATION DATE: 85

TITLE: THE SUPERVISOR'S COMPLETE GUIDE TO HAZARDOUS WASTE AND MATERIALS MANAGEMENT.

DESCRIPTOR: *HAZARDOUS WASTES; *LEGISLATION; *MANAGEMENT; *MATERIALS HANDLING; *PERSONNEL; *RECORDKEEPING; *REGULATIONS; *SAFETY; *WASTE DISPOSAL; *WASTE TREATMENT

DESCRIPTIVE NOTE: 250P.

ABSTRACT: A REFERENCE THAT COVERS THE LAW, MATERIAL HANDLING, WASTE TREATMENT AND DISPOSAL, ACCIDENT PREVENTION, EMERGENCIES, PROTECTIVE EQUIPMENT, INSPECTIONS, RECORDKEEPING, AND EMPLOYEE RELATIONS. THE GUIDE COMES IN A THREE-RING BINDER AND SUBJECT SECTIONS ARE TABBED FOR EASY ACCESS.

AVAILABILITY: BUREAU OF LAW AND BUSINESS, INC., 64 WALL STREET, MADISON, CT 06443

IRIS ACCESSION NUMBER: EW013182

PUBLICATION DATE: 85

TITLE: HAZARDOUS WASTES AND ENVIRONMENTAL EMERGENCIES--1985.

DESCRIPTOR: *CLEANUP; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *ENVIRONMENTAL EMERGENCIES; *MANAGEMENT; *PUBLIC HEALTH; *RCRA; *REGULATIONS; *TECHNOLOGY; *WASTE DISPOSAL; *WASTE TREATMENT

DESCRIPTIVE NOTE: 480P. PRICE: $45.00. ORDER NO.: HWEE5

ABSTRACT: WITH THE RCRA AMENDMENTS ENACTED IN NOVEMBER 1984, THE INTERPRETATION AND EFFECTS OF THE ACT ON THE NUMEROUS ASPECTS OF MANAGEMENT AND TECHNOLOGY ARE MANDATORY FOR ALL THOSE OPERATING WITHIN THE RCRA REQUIREMENTS. PRESENTATIONS INCLUDE: LANDFILL RESTRICTIONS, TREATMENT, INCINERATION, PERMITS, INDUSTRIAL AUDITS, LISTING-DELISTING, MONITORING, CONTAMINATED GROUNDWATER CONTROL, ALTERNATIVE CONCENTRATION LIMITS, NEW LINER/BARRIER REQUIREMENTS, BACKFITTING NECESSITIES, AND FEDERAL AND STATE PROGRAMS. ALSO INCLUDED ARE DISTINCTIVE PAPERS ON ENVIRONMENTAL EMERGENCIES, SUPERFUND, SPILLS, ACID RAIN, HEALTH EFFECTS OF ACUTE CONCENTRATIONS OF HAZARDOUS MATERIALS AND TOXIC SUBSTANCES.

AVAILABILITY: HMCRI, PUBLICATIONS DEPT., 9300 COLUMBIA BLUD., SILVER SPRING, MD 20910

IRIS ACCESSION NUMBER: EW013772

PUBLICATION DATE: FEB 86

TITLE: IMPROVING DESIGN AND OPERATION OF MULTIPLE-HEARTH AND FLUID BED SLUDGE INCINERATORS.

PERSONAL AUTHOR: METCALF AND EDDY, INC.

DESCRIPTOR: *DESIGN; *INCINERATORS; *OPERATIONS (WASTEWATER); *MAINTENANCE; *PERFORMANCE EVALUATION; SLUDGE; *SLUDGE INCINERATORS; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 151P. PRICE: $10.06

ABSTRACT: THE PURPOSE OF THIS INVESTIGATION WAS TO DOCUMENT IMPROVEMENTS IN DESIGN, OPERATION AND MAINTENANCE OF MULTIPLE-HEARTH AND FLUID BED FURNACE INCINERATION FOR COMBUSTION OF SLUDGE IN MUNICIPAL WASTEWATER TREATMENT PLANTS. THE INFORMATION CONTAINED IN THIS REPORT IS INTENDED TO SUPPLEMENT AND QUALIFY INFORMATION AVAILABLE FROM INCINERATOR MANUFACTURERS AND PUBLISHED LITERATURE. THE REPORT ADDRESSES INCINERATOR AND SUPPORT SYSTEMS DESIGN DEFICIENCIES AND SOLUTIONS, OPERATION AND MAINTENANCE PROBLEMS AND SOLUTIONS, FUEL EFFICIENT OPERATION, UPGRADING OF EXISTING INCINERATORS, ADMINISTRATION AND PERSONNEL TRAINING. ADVANTAGES AND DISADVANTAGES OF THE TWO TYPES OF INCINERATORS IN REGARDS TO PLANT SIZE, DESIGN, OPERATION, EMISSIONS, FUEL REQUIREMENTS, MAINTENANCE, ELECTRIC POWER, AND LABOR ARE ALSO DISCUSSED. BEST PRACTICES IN THE AREAS OF OPERATION AND MAINTENANCE, ADMINISTRATION, UPGRADING, FUEL EFFICIENCY, EMISSIONS, AND DESIGN OF FUTURE FACILITIES ARE ALSO PRESENTED. THE INFORMATION FOR THIS PROJECT WAS COLLECTED FROM AVAILABLE LITERATURE, REVIEW OF PREVIOUS SURVEYS OF WASTEWATER TREATMENT PLANTS, INFORMATION FROM INCINERATOR MANUFACTURERS, INHOUSE EXPERIENCE, SITE VISITS TO WASTEWATER TREATMENT PLANTS NATIONWIDE, AND CONTACTS WITH MANUFACTURERS. THE DATA BASE IS INCLUDED IN THE APPENDIX.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW013773

PUBLICATION DATE: FEB 86

TITLE: FORECASTING ONSITE SOIL ABSORPTION SYSTEM FAILURE RATES.

PERSONAL AUTHOR: HUDSON, JAMES

DESCRIPTOR: FACILITIES; *FAILURE RATES; *FORECASTING TECHNIQUES; *MODELS; *ONSITE WASTEWATER TREATMENT; ONSITE DISPOSAL; *PERFORMANCE EVALUATION; SOILS; *SOIL ABSORPTION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 64P. PRICE $4.84

ABSTRACT: A REVIEW WAS MADE OF FOUR PREVIOUS STATISTICAL STUDIES OF ONSITE SOIL ABSORPTION SYSTEM FAILURE RATES IN FOUR DIFFERENT AREAS OF THE UNITED STATES. FROM THIS DATA BASE A SERIES OF FORECASTING TECHNIQUES WERE DEVELOPED WITH

VARYING LEVELS OF ACCURACY FOR USE BY FACILITY PLANNERS IN EVALUATING COMPARATIVE COSTS OF ALTERNATIVE PLANS FOR POLLUTION ABATEMENT IN SMALL COMMUNITIES. THE REQUIRED INPUT DATA AND EXPECTED LEVEL OF ACCURACY TO BE EXPECTED FOR EACH FORECASTING METHOD IS ALSO PROVIDED ALONG WITH THE ASSUMPTIONS MADE IN DEVELOPMENT AND TESTING OF THE MODELS AGAINST AVAILABLE DATA.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW013774

PUBLICATION DATE: FEB 86

TITLE: FIELD INVESTIGATION OF BIOLOGICAL TOILET SYSTEMS AND GREY WATER TREATMENT.

PERSONAL AUTHOR: ENFERADI, KAROL M.; AND OTHERS

DESCRIPTOR: *GREY WATER SYSTEMS; *OPERATIONS (WASTEWATER); *ONSITE WASTEWATER TREATMENT; *ONSITE DISPOSAL; *PERFORMANCE EVALUATION; *SEPTIC TANKS; *TOILETS; *RISK ASSESSMENT; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 290P. PRICE: $18.40

ABSTRACT: THE OBJECTIVE OF THE FIELD PROGRAM WAS TO DETERMINE THE OPERATIONAL CHARACTERISTICS AND OVERALL ACCEPTABILITY OF POPULAR MODELS OF BIOLOGICAL TOILETS AND A FEW SELECT GREY WATER SYSTEMS. A FIELD OBSERVATION SCHEME WAS DEVISED TO TAKE ADVANTAGE OF IN-USE SITES THROUGHOUT THE STATE OF CALIFORNIA. A HEALTH RISK ASSESSMENT WAS PERFORMED CONCURRENTLY USING ENVIRONMENTAL HEALTH EXPERTS TO ESTIMATE THE PROBABILITY THAT A SIGNIFICANT FAILURE OF A PARTICULAR ON-SITE WASTE TREATMENT AND DISPOSAL SYSTEM WOULD OCCUR. THE TECHNIQUE USED BY THE ENVIRONMENTAL HEALTH EXPERTS IS AN OBJECTIVE DECISION-MAKING TECHNIQUE THAT MAY BE USED BY REGULATORY OFFICIALS TO EVALUATE NEW TECHNOLOGIES WHERE THERE IS AN ABSENCE OF DEFINITIVE TEST INFORMATION. THIS ASSESSMENT RESULTS IN A PROBABILITY THAT IS EXPRESSED IN RELATION TO THE ESTIMATED RISK OF A KNOWN SYSTEM, THE SEPTIC TANK-SOIL ABSORPTION SYSTEM. MODEL EDUCATION AND SURVEILLANCE-MONITORING FRAMEWORKS ARE PRESENTED. SINCE THE USER MAY NEED GUIDANCE DURING SITING AND OPERATION AND IN THE EVENT OF SYSTEM FAILURES, THIRD-PARTY MANAGEMENT IS STRONGLY ADVISED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW013775

PUBLICATION DATE: FEB 84

TITLE: OREGON ONSITE EXPERIMENTAL SYSTEMS PROGRAM.

PERSONAL AUTHOR: RONAYNE, MARK P.; AND OTHERS

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; BIOLOGICAL TOILETS; GREYWATER SYSTEMS; SAND FILTERS; *OPERATIONS (WASTEWATER); *ONSITE WASTEWATER TREATMENT; *ONSITE DISPOSAL; *PERFORMANCE EVALUATION; *TECHNOLOGY; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 269P. PRICE: $17.14

ABSTRACT: THIS STUDY WAS INITIATED TO DEVELOP USEFUL DESIGN AND PERFORMANCE DATA ON ALTERNATIVE ONSITE WASTEWATER TREATMENT AND DISPOSAL SYSTEMS WHICH WOULD PERMIT THE USE OF NON-SEWERED TECHNOLOGICAL SOLUTIONS TO RESIDENTS OF RURAL AND SUBURBAN AREAS OF THE STATE OF OREGON AND THE REST OF THE UNITED STATES. IN ORDER TO EXCLUDE THE POSSIBILITY OF SYSTEM FAILURE DUE TO HOMEOWNER NEGLECT OR ABUSE, ALL SYSTEMS WERE INSTALLED AT HOMEOWNER'S EXPENSE. THE SYSTEMS WERE CHOSEN FOR THE MOST PART TO SUIT THE SPECIFIC CLIMATE, SOIL CONDITIONS AND TOPOGRAPHY OF THE LOCATION FROM A VARIETY OF PREVIOUSLY DEVELOPED AND LOCALLY CONCEIVED SYSTEMS WITH VARYING DEGREES OF MODIFICATION TO SUIT THE APPLICATION. AMONG THE TECHNOLOGIES EVALUATED WERE THREE TYPES OF SAND FILTERS, TWO TYPES OF EVAPOTRANSPIRATION SYSTEMS, MOUNDS, BIOLOGICAL ("COMPOSTING") TOILETS, GRAYWATER SYSTEMS, STEEP-SLOPE SYSTEMS, PRESSURE DISTRIBUTION, TILE-DEWATERING SYSTEMS, AND VARIOUS COMBINATIONS OF THE ABOVE.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014100

PUBLICATION DATE: DEC 84

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT XX (1984).

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 137P.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-19.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

IRIS ACCESSION NUMBER: EW014101

PUBLICATION DATE: APR 85

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCE MATERIALS, SUPPLEMENT 21 (1985).

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 109P.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-20.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

IRIS ACCESSION NUMBER: EW014102

PUBLICATION DATE: JULY 85

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT 22 (1985).

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 108P.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-21.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

IRIS ACCESSION NUMBER: EW014103

PUBLICATION DATE: OCT 85

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT 23 (1985).

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 107P.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-22.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

IRIS ACCESSION NUMBER: EW014104

PUBLICATION DATE: DEC 85

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT 24 (1985).

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 90P.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-23.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

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IRIS ACCESSION NUMBER: EW014105

PUBLICATION DATE: MAR 86

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT 25, 1986.

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 96P.

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-24.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

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IRIS ACCESSION NUMBER: EW014106

PUBLICATION DATE: JULY 86

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS, SUPPLEMENT 26, 1986.

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; HAZARDOUS MATERIALS; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; INDEXES; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; WATER POLLUTION; *WATER RESOURCES; WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 97P. U.S. SUBSCRIPTION, $12.00; $5.00 EACH

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-25.

AVAILABILITY: OHIO STATE UNIV., COLUMBUS, OH. INFORMATION REFERENCE CENTER FOR SCIENCE, MATHEMATICS, AND ENVIRONMENTAL EDUCATION

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IRIS ACCESSION NUMBER: EW014760

PUBLICATION DATE: JUNE 87

TITLE: ENERGY CONSERVATION FOR TREATMENT FACILITIES--PART I.

PERSONAL AUTHOR: REARDON, DAVID J.; CULP, GORDON L.

DESCRIPTOR: *AUDITS; *COSTS; *ENERGY CONSERVATION; *ENERGY; *OPERATIONS (WATER) *WATER TREATMENT

DESCRIPTIVE NOTE: 42-44P.

ABSTRACT: THIS IS PART I OF A TWO-PART SERIES ON ENERGY CONSERVATION RELATED TO THE DESIGN AND OPERATION OF TREATMENT PLANTS. PART I EXAMINES ENERGY FUNDAMENTALS, HOW THESE FACTORS RELATE TO CAPITAL AND OPERATING COSTS, AND HOW TO APPROACH AN ENERGY AUDIT.

AVAILABILITY: POLLUTION ENGINEERING; V19 N6

IRIS ACCESSION NUMBER: EW014761

PUBLICATION DATE: JUNE 87

TITLE: TOXIC AIR AND WATER POLLUTION MEASUREMENT.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *AIR POLLUTION; *AIR POLLUTION CONTROL; *INDUSTRIAL WASTES; *MONITORING; *WATER POLLUTION; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 52-59P.

ABSTRACT: DISCUSSED IS THE NEED FOR AND PROCEDURES AND EQUIPMENT FOR MONITORING AND MEASURING AIR AND WATER POLLUTION.

AVAILABILITY: POLLUTION ENGINEERING; V19 N6

IRIS ACCESSION NUMBER: EW014778

PUBLICATION DATE: APR 87

TITLE: SUMMARY TESTIMONIES CRITIQUING ENVIRONMENTAL AND PUBLIC HEALTH ASSESSMENTS ON EMISSIONS OF MUNICIPAL SOLID WASTE INCINERATION.

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENT; *EMISSIONS; *INCINERATORS; *TESTIMONY; *PENNSYLVANIA; *PUBLIC HEALTH; *SOLID WASTES; *RISK ASSESSMENT; *WASTE DISPOSAL; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 47P.

ABSTRACT: THIS REPORT PRESENTS TESTIMONY PRESENTED BEFORE THE PHILADELPHIA CITY COUNCIL RULES COMMITTEE RELATED TO A PROPOSED INCINERATION PLANT. THE INFORMATION PRESENTED CAN PROVIDE ASSISTANCE TO CITIZEN GROUPS EVALUATING THE HEALTH AND ENVIRONMENTAL IMPACTS OF SOLID WASTE INCINERATORS FOR THEIR CITIES.

AVAILABILITY: INSTITUTE FOR LOCAL SELF-RELIANCE, 2425 18TH STREET, N.W., WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014824

PUBLICATION DATE: JAN 87

TITLE: ILLINOIS SMALL QUANTITY GENERATORS' MANUAL.

PERSONAL AUTHOR: KRAYBILL, DANIEL D.

DESCRIPTOR: *COMPLIANCE; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *LEGISLATION; *MANAGEMENT; *REGULATIONS; *WASTE MANAGEMENT; *WASTE REDUCTION; *POLLUTION CONTROL; *WASTE GENERATORS; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 99P.

ABSTRACT: THIS MANUAL OUTLINES REGULATIONS AND SUGGESTS DISPOSAL ALTERNATIVES FOR GENERATORS OF SMALL QUANTITIES OF HAZARDOUS WASTES. THE DOCUMENT CONTAINS SECTIONS ON: (1) LAWS AND REGULATIONS; (2) REGULATORY REQUIREMENTS; (3) WASTE MANAGEMENT ALTERNATIVES; (4) CHOOSING A WASTE MANAGEMENT FIRM; (5) TIPS FOR STAYING OUT OF TROUBLE; (6) WASTE REDUCTION; (7) CONCLUSIONS; AND APPENDICES (CONTAINING A VARIETY OF MATERIALS USEFUL FOR PEOPLE IN ILLINOIS).

AVAILABILITY: HAZARDOUS WASTE RESEARCH AND INFORMATION CENTER, 1808 WOODFIELD DRIVE, SAVOY, IL 61874

IRIS ACCESSION NUMBER: EW014846

PUBLICATION DATE: DEC 85

TITLE: ENVIRONMENTAL PROTECTION AND RESOURCE DEVELOPMENT: CONVERGENCE FOR TODAY. SEPTEMBER 6-9, 1984.

PERSONAL AUTHOR: SADLER, BARRY

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *CANADA; *DECISION MAKING; *ENVIRONMENT; *LEGISLATION; *ENVIRONMENTAL PROTECTION; *ECONOMICS; *POLICIES; *MANAGEMENT; *RESOURCE DEVELOPMENT; *PLANNING

DESCRIPTIVE NOTE: 215P. $10.00 + P&H ($1.50 FOR FIRST BOOK, $.50 FOR EACH ADDITIONAL BOOK). ISBN 0-919813-33-X

ABSTRACT: THIS VOLUME IS THE PROCEEDINGS OF THE BANFF CENTRE'S FOURTH ANNUAL NATIONAL RESOURCE CONFERENCE. THE CONFERENCE WAS HELD TO CHART A COURSE TOWARD CONVERGENCE OF ENVIRONMENTAL PROTECTION AND RESOURCE DEVELOPMENT. THE FOCUS OF THE PAPERS IS ON A DISCUSSION OF AN INTEGRATED SYSTEM OF MANAGEMENT AND PLANNING DIRECTED TOWARD FACTORING ENVIRONMENTAL CONSIDERATIONS INTO ECONOMIC DEVELOPMENT DECISIONS AND ACTIVITIES. THE EMPHASIS IS ON DEVELOPING INSIGHTS AND RECOMMENDATIONS FOR POLICIES AND INSTITUTIONAL IMPROVEMENTS THAT CAN BE APPLIED TO SYSTEMS OF DECISION-MAKING IN CANADA.

AVAILABILITY: THE UNIVERSITY OF CALGARY PRESS, LIBRARY TOWER, 2500 UNIVERSITY DRIVE N.W., CALGARY, ALBERTA T2N 1N4

IRIS ACCESSION NUMBER: EW014850

PUBLICATION DATE: 86

TITLE: WATER MASTER. SIMULATOR FOR COMPLETE-MIX ACTIVATED SLUDGE SYSTEM.

DESCRIPTOR: *COMPUTER SOFTWARE; *COMPUTER APPLICATIONS; *COMPUTER SIMULATIONS; *ENGINEERING; *MANAGEMENT; *OPERATIONS (WASTEWATER); *PROCESS ANALYSIS; *TRAINING; *WASTEWATER TREATMENT; *DESIGN

DESCRIPTIVE NOTE: SOFTWARE. FOR PRICE CONTACT WAID AND ASSOCIATES

ABSTRACT: THIS IS AN INTERACTIVE, IBM PC-BASED TREATMENT PLANT SIMULATOR AND TRAINING AID COMPLETE WITH A PROCESS ENGINEERING PACKAGE. IT COMBINES CONCEPTUAL, PROCEDURAL AND DESIGN INFORMATION WITH ANIMATION AND SIMULATION OF COMPLEX TREATMENT PROCESSES. THE PROCESS ENGINEERING PACKAGE ALLOWS CONCEPTUAL DESIGN OF ACTIVATED SLUDGE PROCESSES OR EVALUATION OF SPECIFIC TREATMENT PLANT DESIGNS. THE PACKAGE ILLUSTRATES HOW VARIOUS PROCESSES WITHIN A TREATMENT PLANT INTERACT AND SIMULATES TREATMENT PLANT OPERATION AND FLAGS SYSTEM MALFUNCTION OR DESIGN DEFICIENCIES AS WATER QUALITY OR PROCESS VARIABLES CHANGE. THIS CAPABILITY ENABLES THE USER TO EVALUATE THE SENSITIVITY OF PLANT PERFORMANCE TO A WIDE RANGE OF FLOW, WATER QUALITY, AND PROCESS CONTROL VARIABLES.

AVAILABILITY: WAID AND ASSOCIATES, 1106 CLAYTON LANE, SUITE 330W, AUSTIN, TX 78723

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IRIS ACCESSION NUMBER: EW014851

TITLE: GROUNDWATER: MICHIGAN'S HIDDEN RESOURCE. AN INTRODUCTION TO THE SCIENCE OF GROUNDWATER AND GROUNDWATER CLEANUP.

DESCRIPTOR: *CONTAMINATION; *GROUNDWATER; *MICHIGAN; *MONITORING; *WATER QUALITY; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 23P.

ABSTRACT: THIS PUBLICATION CONTAINS A DESCRIPTION OF GROUNDWATER, SOURCES OF CONTAMINATION, TECHNIQUES FOR MONITORING, AND PROCEDURES FOR REMEDIATION.

AVAILABILITY: STATE OF MICHIGAN DEPARTMENT OF NATURAL RESOURCES GROUNDWATER QUALITY DIVISION, P.O. BOX 30028, LANSING, MI 48909

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IRIS ACCESSION NUMBER: EW014853

PUBLICATION DATE: JUNE 87

TITLE: ANALYSIS OF AGRICULTURAL NONPOINT POLLUTION CONTROL OPTIONS IN THE ST. ALBANS BAY WATERSHED.

PERSONAL AUTHOR: FRERERT, KATHLEEN; CROWDER, BRADLEY M.

DESCRIPTOR: *AGRICULTURE; *MANURE MANAGEMENT; *BEST MANAGEMENT PRACTICES; *RURAL CLEAN WATER PROGRAM; *DAIRY FARMING; *NONPOINT SOURCE POLLUTION; *AGNPS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 38P.

ABSTRACT: THIS REPORT USED A COMPUTER MODEL, THE AGRICULTURAL NONPOINT SOURCE POLLUTION MODEL (AGNPS) TO ESTIMATE NUTRIENT LOSSES BOTH WITHIN THE WATERSHED AT THE FIELD SCALE AND AT THE WATERSHED OUTLET. THE CAPABILITY OF AGNPS TO EVALUATE PROBLEM SITES WITHIN A WATERSHED CAN ASSIST NONPOINT POLLUTION PROGRAM ADMINISTRATORS IN TARGETING BEST MANAGEMENT PRACTICES (BMP'S). IT WAS CONCLUDED THAT SUBSTANTIAL WATER QUALITY IMPROVEMENTS ARE POSSIBLE FROM BARNYARD RUNOFF CONTROL, ANIMAL WASTE STORAGE STRUCTURES, AND TIMELY NUTRIENT APPLICATIONS.

AVAILABILITY: U.S. DEPT. OF AGRICULTURE, 1301 NEW YORK AVENUE, NW, WASHINGTON, D. C. 20005-4788

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IRIS ACCESSION NUMBER: EW014854

PUBLICATION DATE: AUG 85

TITLE: DEEP WELL INJECTION: AN EXPLOSIVE ISSUE.

DESCRIPTOR: *CASE HISTORIES; *CONFERENCE PROCEEDINGS; *DEEP WELLS; *DEEP WELL INJECTION; *HAZARDOUS WASTES; *PERFORMANCE EVALUATION; *REGULATIONS; *TECHNOLOGY; *WASTES; *WASTE DISPOSAL; *WASTE STORAGE; *WASTE TRANSPORT

DESCRIPTIVE NOTE: 75P.

ABSTRACT: THIS PAPER DETAILS THE PROCEEDINGS OF A MEETING HELD IN 1985 THAT ADDRESSED DEEP WELL INJECTION OF HAZARDOUS WASTES. COMMUNITY LEADERS FROM 17 STATES, SCIENTIFIC AND LEGAL EXPERTS, GOVERNMENT REGULATORY OFFICIALS, AND ENVIRONMENTAL LOBBYISTS MET TO EXAMINE AND DISCUSS DEEP WELL TECHNOLOGY. PARTICIPANTS LOOKED AT THE MECHANICS OF THE SYSTEM, ITS PROS AND CONS, ITS ROLE IN WASTE MANAGEMENT, AND THE CURRENT STATE OF REGULATIONS. KEY OBSERVATIONS AND CONCLUSIONS ARE PRESENTED. SECTIONS ARE INCLUDED ON: (1) BACKGROUND AND HISTORY; (2) CURRENT USE OF INJECTION WELLS; (3) CASE HISTORIES; (4) MYTHS OF DEEP WELLS; (5) EFFECTIVENESS OF DEEP WELL INJECTION AS A TECHNOLOGY; (6) REGULATORY REQUIREMENTS; (7) TRANSPORT AND STORAGE OF WASTES; (8) ALTERNATIVE DISPOSAL METHODS; (9) GLOSSARY; AND (10) APPENDICES.

AVAILABILITY: CITIZENS CLEARINGHOUSE FOR HAZARDOUS WASTES, P.O. BOX 926, ARLINGTON, VA 22216

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IRIS ACCESSION NUMBER: EW014861

PUBLICATION DATE: 86

TITLE: OASIS.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *MANAGEMENT; *OASIS; *WASTEWATER COLLECTION; *REPORTING; *RECORDKEEPING; *PLANNING; *MONITORING; *INSPECTION; *MAINTENANCE; *PREVENTIVE MAINTENANCE

DESCRIPTIVE NOTE: DATABASE PROGRAMP. $7500.00

ABSTRACT: THIS IS AN ADVANCED DATABASE PROGRAM FOR MANAGING WASTEWATER COLLECTION SYSTEMS. OASIS IS DESIGNED TO RUN ON ANY IBM PERSONAL COMPUTER OR COMPATIBLE THAT IS EQUIPPED WITH 640K OF RAM AND A HARD DISK. OASIS DIVIDES A COLLECTION SYSTEM INTO FOUR BASIC AREAS: (1) MAIN LINES; (2) STRUCTURES; (3) SERVICE LATERALS; AND (4) CATCHBASINS AND STORM WATER INLETS. FOR EACH ONE OF THESE AREAS, AN OASIS USER CAN MAINTAIN: (1) FIELD OPERATIONS DATA, INCLUDING SAFETY HISTORY; (2) ENGINEERING DATA, INCLUDING DESIGN STATIONINGS AND GRADES, AS-BUILT MEASUREMENTS AND CALCULATED GRADE; (3) INSPECTION RECORDS, EITHER MANUAL OR TELEVISED; AND (4) WORK ORDERS, INCLUDING COSTS AND RESOURCES (LABOR, MATERIAL, EQUIPMENT, ETC.). THE OASIS REPORTING SYSTEM GENERATES AN ENTIRE RANGE OF REPORTS, ALL THE WAY FROM ROUTINE PREVENTIVE MAINTENANCE SCHEDULES TO COMPLEX INFRASTRUCTURE ANALYSIS.

AVAILABILITY: PUBLIC WORKS SOFTWARE, INC., P.O. BOX 580, PORT HUENEME, CA 93041

IRIS ACCESSION NUMBER: EW014868

PUBLICATION DATE: 86

TITLE: WATER WORKS! A SURVEY OF GREAT LAKES WATERFRONT DEVELOPMENT ON U.S. AND CANADIAN SHORES.

DESCRIPTOR: *CANADA; *GREAT LAKES; *DEVELOPMENT; *ECONOMICS; *LAND USE; *SURVEYS; *WATERFRONTS; *UNITED STATES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 32P. U.S.--$10.00, 10 OR MORE--$8.00 EACH. CANADA--$14.00, 10 OR MORE--$11.00 EACH

ABSTRACT: THIS DOCUMENT PROVIDES A SURVEY OF GREAT LAKES WATERFRONT ON U.S. AND CANADIAN SHORES. FORTY-THREE GREAT LAKES TOWNS AND CITIES ARE PROFILED. DESCRIBED ARE VARIOUS LAND USES, MECHANISMS USED TO FINANCE NEW DEVELOPMENTS, ECONOMIC IMPACT, AND, WHEN AVAILABLE, THE RATIONALE FOR DEVELOPMENT OF SUCH LANDS.

AVAILABILITY: THE CENTER FOR THE GREAT LAKES, 435 N. MICHIGAN AVE., SUITE 1408, CHICAGO, IL 60611

IRIS ACCESSION NUMBER: EW014872

PUBLICATION DATE: SEPT 87

TITLE: SELF-TRAINING, SELF-OPTIMIZING EXPERT SYSTEM FOR INTERPRETATION OF THE INFRARED SPECTRA OF ENVIRONMENTAL MIXTURES.

PERSONAL AUTHOR: YING, LI-SHI; AND OTHERS

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CHEMISTRY; *COMPUTER APPLICATIONS; *CHEMICAL ANALYSIS; *CHEMICAL MIXTURES; *EXPERT SYSTEMS; *INFRARED SPECTRA; *LABORATORY PROCEDURES; ENVIRONMENT; INSTRUCTIONAL MATERIALS; POSTSECONDARY EDUCATION; *SCREENING TOOLS; TRAINING

DESCRIPTIVE NOTE: 2197-2203P.

ABSTRACT: THIS SYSTEM PROVIDES A TRAINING SET OF PURE COMPOUNDS AND 67 FOUR-COMPONENT MIXTURES. THE SYSTEM CORRECTLY IDENTIFIES 216 TRUE POSITIVE RESULTS AND 3840 NEGATIVES AND INCORRECTLY IDENTIFIES 46 FALSE POSITIVES (19.4%) AND 52 FALSE NEGATIVES (1.2%).

AVAILABILITY: ANALYTICAL CHEMISTRY; V59 N17

IRIS ACCESSION NUMBER: EW014895

PUBLICATION DATE: MARCH 87

TITLE: EVALUATION OF SURVEY POSITIONING METHODS FOR NEARSHORE MARINE AND ESTUARINE WATERS.

DESCRIPTOR: *COSTS; *ESTUARIES; *EQUIPMENT; *EQUIPMENT EVALUATION; *MONITORING; *MONITORING SYSTEMS; *PERFORMANCE EVALUATION; *SURVEY POSITIONING METHODS; *SYSTEM SELECTION; *OCEANS; *COASTAL WATER; *301 (H) MONITORING PROGRAMS; *WATER QUALITY

DESCRIPTIVE NOTE: 122P. PRICE: $8.32

ABSTRACT: THIS DOCUMENT PROVIDES ESSENTIAL INFORMATION FOR THE EVALUATION OF OPERATING CHARACTERISTICS (E.G., ACCURACY, PRECISION, RELIABILITY) AND SYSTEM COSTS OF STATION POSITIONING EQUIPMENT. FOUR MAIN TYPES OF NAVIGATIONAL INSTRUMENTS ARE CONSIDERED IN THIS DOCUMENT: OPTICAL TECHNIQUES, ELECTRO-OPTICAL METHODS, ELECTRONIC MICROWAVE SYSTEMS, AND SATELLITE POSITIONING EQUIPMENT. POSITIONING FOR 301 (H) MONITORING PROGRAMS IS DISCUSSED ALONG WITH THE VARIOUS ADVANTAGES AND DISADVANTAGES OF EACH TYPE OF POSITIONING SYSTEM. A SYSTEM SELECTION PROCEDURE IS OUTLINED AND METHODS ARE SUGGESTED TO ENHANCE SYSTEM OPERATIONAL CHARACTERISTICS TO MINIMIZE POSITIONAL ERRORS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014896

PUBLICATION DATE: MARCH 87

TITLE: BIOACCUMULATION MONITORING GUIDANCE: SELECTION OF TARGET SPECIES AND REVIEW OF AVAILABLE DATA. VOLUME I.

DESCRIPTOR: *BIOLOGY; *BIOLOGICAL INDICATORS; *BIOACCUMULATION; *COASTAL WATERS; *MONITORING; *RECOMMENDATIONS; *OCEANS; *ENVIRONMENTAL QUALITY; GUIDANCE MANUALS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 66P. PRICE $4.96

ABSTRACT: THE GUIDANCE PROVIDED IN THIS DOCUMENT PROVIDES ASSISTANCE IN THE SELECTION OF TARGET SPECIES FOR BIOACCUMULATION STUDIES FOR SEVERAL MAJOR COASTAL AREAS OF THE UNITED STATES. THIS PUBLICATION IS VOLUME I OF A TWO-VOLUME SERIES. VOLUME I PROVIDES A REVIEW OF AVAILABLE INFORMATION, SELECTION METHODOLOGY AND SPECIFIC GUIDANCE TO ENSURE THAT THERE IS REGIONAL CONSISTENCY IN THE SELECTION OF TARGET SPECIES FOR BIOACCUMULATION STUDIES. VOLUME II IS EW 14957.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014900

PUBLICATION DATE: JUNE 86

TITLE: DESIGN INFORMATION REPORT: RECESSED PLATE FILTER PRESSES.

DESCRIPTOR: *DESIGN; *DEWATERING; *EQUIPMENT; *EQUIPMENT SELECTION; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RECESSED FILTER PRESSES; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 10P.

ABSTRACT: THIS REPORT PRESENTS CURRENT PROBLEMS ASSOCIATED WITH THE SELECTION, DESIGN, AND OPERATION OF RECESSED FILTER PRESS SYSTEMS AT MUNICIPAL WASTEWATER FACILITIES. IT DISCUSSES APPLICATION OF BOTH FIXED VOLUME AND VARIABLE VOLUME RECESSED PLATE PRESSES, AS WELL AS SELECTION AND APPLICATION OF AUXILLIARY EQUIPMENT ASSOCIATED WITH THESE PRESSES.

AVAILABILITY: U.S. ENVIRONMENTAL PROTECTION AGENCY, OFFICE OF MUNICIPAL POLLUTION CONTROL, WASHINGTON, D.C. 20460

IRIS ACCESSION NUMBER: EW014910

PUBLICATION DATE: JULY 87

TITLE: IN SEARCH OF EXCELLENCE. PRACTICAL STRATEGIES FOR MANAGING CHANGE IN ENVIRONMENTAL HEALTH ORGANIZATIONS.

PERSONAL AUTHOR: VENINGA, ROBERT L.

DESCRIPTOR: *CHANGE PROCESS; *CHANGE STRATEGIES; *ENVIRONMENTAL HEALTH; *EMPLOYEE/EMPLOYER RELATIONSHIPS; *HEALTH PERSONNEL; *ORGANIZATIONAL CHANGE; *ORGANIZATIONAL THEORIES; *PLANNING; *STAFF DEVELOPMENT

DESCRIPTIVE NOTE: 4-7P.

ABSTRACT: DESCRIBED ARE THREE METHODS THAT WILL ASSIST IN ASSESSING ATTITUDES OF EMPLOYEES. ATTENTION IS FOCUSED ON HOW TO BRING ABOUT ORDERLY ORGANIZATIONAL CHANGE, HOW TO EVALUATE WHETHER THE CHANGES ARE EFFECTIVE AND HOW TO DIMINISH RESISTANCE TO NEW IDEAS.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V50 N1

IRIS ACCESSION NUMBER: EW014911

PUBLICATION DATE: JULY 87

TITLE: HAZARD COMMUNICATION AND TRAINING. A PROTOTYPE.

PERSONAL AUTHOR: BARRY, DANA H.

DESCRIPTOR: *CHEMICALS; *COMMUNICATIONS; *ENVIRONMENT; *HAZARDOUS MATERIALS; *PROGRAM DEVELOPMENT; *RECORDKEEPING; *SAFETY; *COMPLIANCE; *REGULATIONS; *PLANNING; *TRAINING

DESCRIPTIVE NOTE: 18-19P.

ABSTRACT: DESCRIBED IS A PROTOTYPE HAZARD COMMUNICATION AND TRAINING PROGRAM FOR NEW MANUFACTURERS. DISCUSSED ARE THE NECESSARY COMPONENTS OF SUCH A PROGRAM INCLUDING (1) CHEMICAL INVENTORY; (2) LABELING PROCEDURES; (3) TRAINING; AND (4) REQUIRED WRITTEN MATERIALS INCLUDING DATA SHEETS. A PROTOCOL MUST ALSO BE ESTABLISHED TO MAINTAIN THE PROGRAM.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V50 N1

IRIS ACCESSION NUMBER: EW014919

PUBLICATION DATE: 86

TITLE: PCBS AND THE ENVIRONMENT.

PERSONAL AUTHOR: WAID, JOHN

DESCRIPTOR: *CHEMISTRY; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *PCBS; *PUBLIC HEALTH; *RESEARCH; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 3 VOLUMES: 800 PAGES; ORDER NUMBER: 5929MTZ; PRICE: $340.00

ABSTRACT: THIS THREE-VOLUME SET IS A COLLECTION OF IN-DEPTH REVIEWS BY AN INTERNATIONAL PANEL ON THE CURRENT STATE OF KNOWLEDGE OF PCBS IN THE ENVIRONMENT. A WEALTH OF TABULAR DATA, DESCRIPTIONS OF RESEARCH METHODOLOGIES, AND DETAILED CASE STUDIES ALL HIGHLIGHT THIS SERIES. VOLUME I CONCENTRATES ON THE CHEMISTRY AND PROPERTIES OF PCBS, AND BASIC FACTORS CONTROLLING THEIR DISTRIBUTION AND ACCUMULATION IN THE ENVIRONMENT. VOLUMES II AND III FURTHER EXPLORE THE EFFECTS ON LIVING ORGANISMS, INCLUDING PLANTS, MICROORGANISMS, ANIMALS, AND HUMANS.

AVAILABILITY: CRC PRESS, INC., 2000 CORPORATE BLVD., N.W., BOCA RATON, FLORIDA 33431.

IRIS ACCESSION NUMBER: EW014920

PUBLICATION DATE: 86

TITLE: WATERLOGGED WEALTH. WHY WASTE THE WORLD'S WET PLACES?

PERSONAL AUTHOR: MALTBY, EDWARD

DESCRIPTOR: BIOLOGY; ECOLOGY; AGRICULTURE; *ECONOMICS; *MANAGEMENT; *LAND USE; LAND DEVELOPMENT; *POLICIES; *WETLANDS; *WORLD PROBLEMS; WATER RESOURCES; WATER SUPPLY

DESCRIPTIVE NOTE: 201P.

ABSTRACT: THIS PUBLICATION EXAMINES THE VALUE OF VARIOUS TYPES OF WETLANDS INCLUDING SWAMPS AND MARSHES, AS WELL AS THE THREATS AGAINST THEM. WETLANDS ARE AMONG THE WORLD'S MOST PRODUCTIVE ECOSYSTEMS; THEY ARE IMPORTANT IN FOOD PRODUCTION, AS POLLUTION FILTERS AND WATER RESERVOIRS, OFFER HOMES TO ENDANGERED PLANTS AND ANIMALS, AND PROVIDE PROTECTION AGAINST FLOODS AND STORMS. ATTITUDES TOWARD WETLANDS ARE CHANGING, BUT NOT FAST ENOUGH. DESTRUCTION OF THESE LANDS HAS OCCURRED AND CONTINUES TO OCCUR AT A RAPID RATE. WETLANDS SERVE VERY IMPORTANT ROLES AND NEED TO BE MAINTAINED; WETLAND MANAGEMENT CAN PROVIDE ECONOMIC AND ECOLOGICAL ADVANTAGES.

AVAILABILITY: EARTHSCAN, 1717 MASSACHUSETTS AVE., N.W., SUITE 302, WASHINGTON, D.C. 20036

IRIS ACCESSION NUMBER: EW014921

PUBLICATION DATE: AUG 87

TITLE: BOSTON PROJECT TESTS METHODS AND MARKETS.

PERSONAL AUTHOR: TRUBIANO, R. P.; AND OTHERS

DESCRIPTOR: *COMPOSTING; *MASSACHUSETTS; *COMPOST DISTRIBUTION; *OPERATIONS (WASTEWATER); *RESOURCE RECOVERY; *SLUDGE; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 23-26P.

ABSTRACT: DESCRIBED IS A SLUDGE COMPOST DEMONSTRATION FACILITY IN MASSACHUSETTS. THE FACILITY WAS DEVELOPED TO REDUCE SLUDGE DISCHARGE INTO BOSTON HARBOR.

AVAILABILITY: BIOCYCLE; V28 N7

IRIS ACCESSION NUMBER: EW014922

PUBLICATION DATE: 85

TITLE: QUALITY ASSURANCE FOR ENVIRONMENTAL MEASUREMENTS. STP 867.

PERSONAL AUTHOR: TAYLOR; STANLEY

DESCRIPTOR: *AIR; *DATA QUALITY; *ENVIRONMENT; *MEASUREMENT; *MONITORING; *QUALITY ASSURANCE; *WATER

DESCRIPTIVE NOTE: 440P. HARDCOVER; PCN: 04-867000-16; LIST PRICE: $50.00; MEMBER PRICE: $40.00

ABSTRACT: DISCUSSES DATA QUALITY ASSURANCE, AMBIENT AIR MEASUREMENTS, AMBIENT WATER MEASUREMENTS, SOURCE MEASUREMENTS, DISCHARGE MONITORING, AND REFERENCE MATERIALS. INCLUDES A GENERAL PAPER ON QUALITY ASSURANCE PROGRAMS AND A DETAILED PAPER ON THE U.S. E.P.A.'S QUALITY ASSURANCE PROGRAM.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014923

PUBLICATION DATE: 86

TITLE: HAZARDOUS AND INDUSTRIAL SOLID WASTE TESTING: FOURTH VOLUME. STP 886.

PERSONAL AUTHOR: PETROS; AND OTHERS.

DESCRIPTOR: *HAZARDOUS MATERIALS; *INDUSTRIAL WASTES; *SAMPLING; *RISK ASSESSMENT; *SOLID WASTES; *TESTING; *WASTE TREATMENT

DESCRIPTIVE NOTE: 368P. PCN: 04-886000-16; LIST PRICE: $52.00; MEMBER PRICE: $41.60

ABSTRACT: THIS PUBLICATION CONTAINS 24 PAPERS WHICH EXAMINE THE FOLLOWING SUBJECTS: THERMAL TREATMENT; HAZARD DEGREES, HEALTH EFFECTS, AND RISK ASSESSMENT; WASTE CHARACTERIZATION (CHEMICAL, PHYSICAL, BIOLOGICAL); EXTRACTION OF TOXICANTS (BATCH AND CONTINUOUS), EVALUATION OF EXTRACTS AND LEACHATES; LANDFILL/LANDFARM SIMULATION; AND SAMPLING OF RESIDUES AND SITES (SOIL, GROUND-WATER, AIR).

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014924

PUBLICATION DATE: 86

TITLE: QUALITY CONTROL IN REMEDIAL SITE INVESTIGATION: HAZARDOUS AND INDUSTRIAL WASTE TESTING: FIFTH VOLUME. STP 925

PERSONAL AUTHOR: PERKET, C.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *HAZARDOUS MATERIALS; *INDUSTRIAL WASTES; *LABORATORY PROCEDURES; *PERFORMANCE EVALUATION; *TESTING; *RESEARCH REVIEWS; *QUALITY CONTROL; *SAMPLING; *REMEDIAL SITE INVESTIGATION

DESCRIPTIVE NOTE: 188P. PCN: 04-925000-16; LIST PRICE: $29.00; MEMBER PRICE: $23.20

ABSTRACT: THIS PUBLICATION PRESENTS A STATE-OF-THE-ART REVIEW OF CURRENT METHODS TO COLLECT, PREPARE, AND ANALYZE SAMPLES. IT ALSO PROVIDES THE RESULTS OF A MASSIVE EFFORT TO REVIEW THE QUALITY CONTROL/QUALITY ASSURANCE OF THE LABORATORIES PERFORMING ANALYSES UNDER THE U.S. ENVIRONMENTAL PROTECTION AGENCY'S (USEPA) CONTRACT LABORATORY PROGRAM. THIS PROGRAM IS BELIEVED TO BE THE LARGEST UNDERTAKING EVER TO EVALUATE THE PERFORMANCE OF

MULTIPLE LAWORATORIES USING THE SAME ANALYTICAL TECHNIQUES. THERE IS A TOTAL OF SEVENTEEN PAPERS.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014925

PUBLICATION DATE: 87

TITLE: HAZARDOUS AND INDUSTRIAL SOLID WASTE TESTING AND DISPOSAL: SIXTH VOLUME. STP 933.

PERSONAL AUTHOR: LORENZEN; AND OYHERS

DESCRIPTOR: *GROUNDWATER; *HAZARDOUS WASTES; *HAZARDOUS MATERIALS; *INDUSTRIAL WASTES; *MONITORING; *TESTING; *SOLID WASTES; *WASTE DISPOSAL; *WASTE TREATMENT

DESCRIPTIVE NOTE: 470P. PCN: 04-933000-16; LIST PRICE: $63.00; MEMBER PRICE: $50.40.

ABSTRACT: THE SEVEN SECTIONS OF THIS BOOK IN THE WASTE DISPOSAL SERIES ARE: CONTAMINANT AND LEACHING ASSESSMENTS; GROUND WATER AND CONTAMINANT MIGRATION ASSESSMENTS; INCINERATION OF HAZARDOUS WASTE; LINER ASSESSMENTS; SITE MONITORING AND ASSESSMENT; WASTE TREATMENT ALTERNATIVES; AND ASTM TEST METHOD DEVELOPMENT. THE BOOK DISCUSSES IMPROVED METHODS FOR ASSESSING INDUSTRIAL SOLID WASTE DISPOSAL SITES AND PROCESSES AND FOR TESTING WASTES TO PREDICT THEIR BEHAVIOR IN VARIOUS DISPOSAL SCENARIOS.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014926

PUBLICATION DATE: 85

TITLE: PESTICIDE FORMULATIONS AND APPLICATION SYSTEMS: FOURTH SYMPOSIUM. STP 875.

PERSONAL AUTHOR: KANEKO; SPICER

DESCRIPTOR: *PESTICIDE APPLICATION; *PESTICIDES; *PESTICIDE FORMULATIONS; *SPRAYING TECHNIQUES; *TECHNOLOGY

DESCRIPTIVE NOTE: 193P. PCN: 04-875000-48; LIST PRICE: $37.00; MEMBER PRICE: $29.60

ABSTRACT: THIS PUBLICATION CONTAINS 18 PAPERS WHICH DISCUSS: PESTICIDE FORMULATIONS; SPRAYING TECHNIQUES AND/OR LOW AND ULTRA LOW VOLUME APPLICATIONS EMPLOYING OIL CARRIERS, INCLUDING SUBSURFACE DRIP IRRIGATION AND PLANT GROWTH REGULATORS; AND GRANULE TECHNOLOGY.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014927

PUBLICATION DATE: 86

TITLE: PESTICIDE FORMULATIONS AND APPLICATION SYSTEMS: FIFTH SYMPOSIUM. STP 915.

PERSONAL AUTHOR: SPICER; KANEKO

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *LABORATORY ANALYSIS; *PESTICIDES; *SPRAY ANALYZERS

DESCRIPTIVE NOTE: 156P. PCN: 04-915000-48; LIST PRICE: $32.00; MEMBER PRICE: $25.60

ABSTRACT: THIS IS THE FIFTH IN THE SERIES. IT IS DIVIDED INTO TWO SECTIONS: GENERAL TOPICS AND USE OF SPRAY DROP SIZE ANALYZERS. EIGHT PAPERS IN THE LATTER SECTION FOCUS ON RUBY LASER IN-SITU INSTRUMENTS, DISCUSSING USE, LIMITATIONS, AND ADVANTAGES AS WELL AS PRESENTING DATA ON RESULTS OF SPECIFIC ATOMIZATION STUDIES.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014928

PUBLICATION DATE: 87

TITLE: PESTICIDE FORMULATIONS AND APPLICATION SYSTEMS: SIXTH SYMPOSIUM. STP 943.

PERSONAL AUTHOR: HOOVER, VANDER; SPICER

DESCRIPTOR: *PESTICIDE APPLICATIONS; *PESTICIDES; *PESTICIDE FORMULATIONS; *SPRAY TECHNIQUES; *TECHNOLOGY

DESCRIPTIVE NOTE: 186P. PCN: 04-943000-48; LIST PRICE: $36.00; MEMBER PRICE: $28.80

ABSTRACT: THIS IS THE SIXTH VOLUME IN THIS SERIES ON THIS SUBJECT AND PRESENTS CURRENT, ONGOING RESEARCH IN IMPROVED PESTICIDE FORMULATIONS AND APPLICATION SYSTEMS. THE FOCUS OF THIS VOLUME IS ON THE TECHNICAL ASPECTS OF PESTICIDE FORMULATION AND APPLICATION, INCLUDING PROCEDURES, EQUIPMENT, AND CHARACTERISTICS OF FORMULATIONS CONTRIBUTING TO THE EFFECTIVE AND RESPONSIBLE USE OF PESTICIDES. THERE ARE 15 PEER-REVIEWED PAPERS THAT COVER: SPRAY SYSTEMS; GRANULAR FORMULATIONS; AND MINERAL CARRIERS AND THEIR CURRENT USES.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014929

PUBLICATION DATE: 87

TITLE: PESTICIDE FORMULATIONS AND APPLICATION SYSTEMS: SEVENTH VOLUME. STP 968.

PERSONAL AUTHOR: BEESTMAN; HOOVEN, VANDER

DESCRIPTOR: *PESTICIDE APPLICATION; *PESTICIDES; *PESTICIDE FORMULATIONS: *PESTICIDE REGISTRATION

DESCRIPTIVE NOTE: 230P. PCN: 04-968000-48; LIST PRICE: $39.00; MEMBER PRICE: $31.20

ABSTRACT: THIS PUBLICATION PROVIDES INFORMATION ON TECHNOLOGICAL ADVANCES IN THE AREAS OF PESTICIDE APPLICATION, PESTICIDE FORMULATION, AND REGISTRATION CONSIDERATIONS. A COLLECTION OF 26 PEER-REVIEWED PAPERS COVER: PERSPECTIVE; CLOSED MIXING; HANDLING, AND APPLICATION SYSTEMS; FORMULATIONS; APPLICATION RESEARCH; APPLICATION METHODS; GRANULES; AND REGISTRATION.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014930

PUBLICATION DATE: 86

TITLE: HAZARD COMMUNICATION: ISSUES AND IMPLEMENTATION. STP 932.

PERSONAL AUTHOR: BROWER, J. E.

DESCRIPTOR: *HAZARD COMMUNICATIONS; *HAZARDOUS MATERIALS; *SAFETY; *ISSUES; *LIABILITIES; *STANDARDS; *REGULATIONS

DESCRIPTIVE NOTE: 237P. PCN: 04-932000-55; LIST PRICE: $37.00; MEMBER PRICE: $29.60

ABSTRACT: THIS PUBLICATION IS A REVIEW OF THE FEDERAL HAZARD COMMUNICATION STANDARD AND ITS IMPLEMENTATION REQUIREMENTS. THE PAPERS AND PANEL DISCUSSIONS GIVE PERTINENT DETAILS REGARDING AN EVALUATION OF THE ISSUES, CONTROVERSIES AND PROBLEMS IN IMPLEMENTING THIS STANDARD. DIFFICULT, HIGH LIABILITY ISSUES ARE DISCUSSED BY LABOR, INDUSTRY, GOVERNMENT REGULATORS, LAWYERS, AND SAFETY EXPERTS.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014931

PUBLICATION DATE: 85

TITLE: AQUATIC TOXICOLOGY AND HAZARD ASSESSMENT (SEVENTH SYMPOSIUM). STP 854.

PERSONAL AUTHOR: CARDWELL; AND OTHERS

DESCRIPTOR: *AQUATIC TOXICOLOGY; *AQUATIC ECOSYSTEMS; *FATE ASSESSMENT; *HAZARD ASSESSMENT; *ANALYTICAL TECHNIQUES; *ENVIRONMENTAL IMPACT; *CHEMICALS; *CHEMICAL WASTES; *WATER QUALITY

DESCRIPTIVE NOTE: 579P. PCN: 04-854000-16; LIST PRICE: $60.00; MEMBER PRICE: $48.00

ABSTRACT: THIS PUBLICATION DISCUSSES APPROACHES FOR DETERMINING THE IMPACT OF POLLUTION ON AQUATIC ECOSYSTEMS THROUGH TOXICOLOGICAL AND CHEMICAL FATE ASSESSMENTS. FIVE SECTIONS COVER: METHODS DEVELOPMENT, REFINEMENT, AND EVALUATION; CHEMICALS AND CHEMICAL WASTE; IMPACT OF WASTES ON AQUATIC ECOSYSTEMS; BIOAVAILABILITY; AND NATIONAL WATER QUALITY CRITERIA.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014932

PUBLICATION DATE: 86

TITLE: AQUATIC TOXICOLOGY AND HAZARD ASSESSMENT (EIGHTH SYMPOSIUM). STP 891.

PERSONAL AUTHOR: BAHNER; HANSEN

DESCRIPTOR: *AQUATIC TOXICOLOGY; *ANALYTICAL TECHNIQUES; *HAZARD ASSESSMENT; *DIOXINS; *TEST METHODS; *TECHNOLOGY

DESCRIPTIVE NOTE: 488P. PCN: 04-891000-16; LIST PRICE: $52.00; MEMBER PRICE: $41.60

ABSTRACT: THIS PUBLICATION FOCUSES ON THE USEFULNESS OF TEST METHODS IN THE REGULATORY AND INDUSTRIAL CONTEXT, LIMITS TO THEIR ENVIRONMENTAL APPLICABILITY, AND RECENT IMPROVEMENTS IN THEM. CONTAINS FOUR PAPERS ON DIOXINS.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014933

PUBLICATION DATE: 86

TITLE: AQUATIC TOXICOLOGY AND ENVIRONMENTAL FATE: NINTH VOLUME. STP 921.

PERSONAL AUTHOR: POSTON; PURDY

DESCRIPTOR: *AQUATIC TOXICOLOGY; *AQUATIC ENVIRONMENTS; *ANALYTICAL TECHNIQUES; *ENVIRONMENT; *BIOMONITORING; *TOXICOLOGY

DESCRIPTIVE NOTE: 548P. PCN: 04-921000-16; LIST PRICE: $64.00; MEMBER PRICE: $51.20

ABSTRACT: THIS IS THE NINTH IN THIS SERIES. THIS VOLUME ADDRESSES THE FOLLOWING SUBJECTS: THE IMPACT OF GENETICALLY ENGINEERED MICROORGANISMS IN AQUATIC ENVIRONMENTS; BIOACCUMULATION AND BIOTRANSFORMATION OF XENOBIOTICS; QUALITY ASSURANCE PROGRAMS FOR THE HYDRA REAGGREGATION TEST AND THE HYDROGEN OXIDATION SOIL BIO-ASSAY; BIOMONITORING; NEW TEST METHODS; AND THE RELATIONSHIP BETWEEN SEDIMENT AND

TOXICITY AND BIOAVAILABILITY OF CHEMICALS.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103.

IRIS ACCESSION NUMBER: EW014934

PUBLICATION DATE: 86

TITLE: COMMUNITY TOXICITY TESTING. STP 920.

PERSONAL AUTHOR: CAIRNS, J., JR.

DESCRIPTOR: *BIOLOGY; *BIOLOGICAL COMMUNITIES; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *RESEARCH REPORTS; *TESTING; *TOXIC MATERIALS

DESCRIPTIVE NOTE: 348P. PCN: 04-920000-16; LIST PRICE: $48.00; MEMBER PRICE: $38.40

ABSTRACT: THIS BOOK PRESENTS A SERIES OF CASE HISTORIES OF ACTUAL USE OF COMPLEX TEST SYSTEMS TOGETHER WITH A DISCUSSION OF THEIR ADVANTAGES AND DISADVANTAGES. A SUBSTANTIAL AMOUNT OF INFORMATION AND METHODOLOGY IS PROVIDED THAT CAN BE USED IN THE VALIDATION PROCESS AT THE COMMUNITY LEVEL OF BIOLOGICAL ORGANIZATION.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014935

PUBLICATION DATE: 86

TITLE: IMPACT OF ACID RAIN AND DEPOSITION ON AQUATIC BIOLOGICAL SYSTEMS. STP 928.

PERSONAL AUTHOR: ISOM; AND OTHERS

DESCRIPTOR: *ACID RAIN; *AQUATIC BIOLOGICAL SYSTEMS; *BIOLOGY; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *LAKES; *MEASUREMENT; *STREAMS; *WATER QUALITY

DESCRIPTIVE NOTE: 120P. PCN: 04-928000-16; LIST PRICE: $22.00; MEMBER PRICE: $17.60.

ABSTRACT: THIS PUBLICATION PRESENTS QUANTITATIVE AND PRACTICAL INFORMATION ON THE IMPACT OF ACID RAIN ON AQUATIC BIOTA. INFORMATION IS INCLUDED ON UNDERSTANDING LAKE/STREAM ACIDIFICATION PROCESSES AND AQUATIC BIOLOGICAL EFFECTS, SUCH AS STREAM AND LAKE PRODUCTIVITY, DIVERSITY, AND MEASUREMENT TECHNIQUES.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014936

PUBLICATION DATE: 86

TITLE: NEW APPROACHES TO MONITORING AQUATIC ECOSYSTEMS. STP 940.

PERSONAL AUTHOR: BOYLE, T. P.

DESCRIPTOR: *DATA COLLECTION; *DATA ANALYSIS; *AQUATIC ECOSYSTEMS; *DATABASE MANAGEMENT; *ECOLOGY; *ENVIRONMENT; *MONITORING; *SAMPLING; *QUALITY ASSURANCE; *WATER QUALITY

DESCRIPTIVE NOTE: 215P. PCN: 04-940000-16; LIST PRICE: $39.00; MEMBER PRICE: $31.20.

ABSTRACT: THIS PUBLICATION OFFERS EXAMPLES WHERE NEW METHODS AND APPROACHES OF ENVIRONMENTAL MONITORING ARE BEING EMPLOYED. PAPERS ELABORATE ON SPECIFIC CONCERNS, QUESTIONS, AND PROGRAM CRITERIA THAT CHARACTERIZE THE DEVELOPMENT OF MONITORING PROGRAMS AND PROVIDE PARADIGMS FOR FUTURE MONITORING PROGRAMS. KEY DISCUSSION CONCEPTS INCLUDE WATER QUALITY, STATISTICAL DESIGN CRITERIA, LONG-TERM SAMPLING PROGRAMS, ECOLOGICAL DATA BASE MANAGEMENT, QUALITY ASSURANCE, AND DATA INTEGRITY.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014937

PUBLICATION DATE: 86

TITLE: RATIONALE FOR SAMPLING AND INTERPRETATION OF ECOLOGICAL DATA IN THE ASSESSMENT OF FRESHWATER ECOSYSTEMS. STP 894.

PERSONAL AUTHOR: ISOM, B. G.

DESCRIPTOR: *AQUATIC ECOSYSTEMS; *ECOLOGY; *ECOLOGICAL DATA; *FRESHWATER ECOSYSTEMS; *ENVIRONMENT; *ENVIRONMENTAL HAZARDS; *SAMPLING; *WATER QUALITY

DESCRIPTIVE NOTE: 194P. PCN: 04-894000-16; LIST PRICE: $39.00; MEMBER PRICE: $31.20

ABSTRACT: THIS PUBLICATION CONTAINS 12 PAPERS THAT DEVELOP RATIONAL BASES FOR SAMPLING VARIOUS AQUATIC ECOSYSTEMS AND ASSESSING ENVIRONMENTAL HAZARDS.

AVAILABILITY: ASTM, 1916 RACE STREET, PHILADELPHIA, PA 19103

IRIS ACCESSION NUMBER: EW014938

PUBLICATION DATE: 86

TITLE: CHLORINATION BYPRODUCTS: PRODUCTION AND CONTROL.

DESCRIPTOR: *CHLORINATION; *DRINKING WATER; *DISINFECTION;

*HALOGENATED ORGANIC COMPOUNDS; *OPERATIONS (WATER); *PUBLIC HEALTH; *THMS; *TRIHALOMETHANES; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: ORDER NO.: 90512 MX; MEMBERS: $24.00; NONMEMBERS: $30.00

ABSTRACT: THIS REPORT PROVIDES A SUMMARY OF FULL-SCALE THM CONTROL IN HOLLAND SINCE 1978. THE REPORT COVERS: TOXICOLOGICAL ASPECTS OF THMS AND OTHER HALOGENATED ORGANIC COMPOUNDS, REMOVAL TECHNOLOGY, FORMATION CHEMISTRY, AND RECOMMENDED CONTROL STRATEGIES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014939

PUBLICATION DATE: 86

TITLE: EXTERNAL CORROSION - INTRODUCTION TO CHEMISTRY AND CONTROL (M27).

DESCRIPTOR: *CHEMISTRY; *CORROSION; *CORROSION CONTROL; *DRINKING WATER; *OPERATIONS (WATER); *WATER TREATMENT

DESCRIPTIVE NOTE: 64P. ORDER NO.: 30027 MT; MEMBERS: $11.00; NONMEMBERS: $14.00

ABSTRACT: THIS MANUAL EXPLAINS CORROSION AND WHY CORROSION OCCURS. INFORMATION IN THE MANUAL EXPLAINS CORROSION CONTROL AND HOW TO EVALUATE THE MOST APPROPRIATE CORRECTION TECHNIQUES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014940

PUBLICATION DATE: 86

TITLE: WATER MAIN EVALUATION FOR REHABILITATION/REPLACEMENT.

DESCRIPTOR: *MANAGEMENT; *MAINTENANCE PROGRAMS; *PLANNING; *REPLACEMENT PROGRAMS; *OPERATIONS (WATER); *WATER MAINS; *WATER DISTRIBUTION; *WATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO.: 90509 MH; MEMBERS: $20.75; NONMEMBERS: $26.00

ABSTRACT: THIS MANUAL PROVIDES INFORMATION ON HOW TO DEVELOP A RATIONAL REPAIR AND REPLACEMENT SYSTEM FOR WATER MAINS. INFORMATION IS INCLUDED ON: (1)DEFINING BREAK AND REPAIR PATTERNS; (2)EXAMINING FORCES LEADING TO DETERIORATION; (3)ASSESSING THE SYSTEM'S CONDITION; (4)ESTABLISHING A MONITORING PROGRAM; AND (5)DEVELOPING A PLANNING PROGRAM.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014941

PUBLICATION DATE: 87

TITLE: CHLORO-ORGANIC WATER QUALITY CHANGES RESULTING FROM MODIFICATIONS OF WATER TREATMENT PRACTICES.

DESCRIPTOR: *CHLORO-ORGANIC COMPOUNDS; *CHLORINATION; *DISINFECTION; *DRINKING WATER; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *PUBLIC HEALTH; *THMS; *TOX; *SURVEYS; *WATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO.: 90517 KN; MEMBER: $14.50; NONMEMBER: $18.00

ABSTRACT: THIS PUBLICATION PRESENTS INFORMATION ON VARIABLES AFFECTING THE FORMATION OF CHLORO-ORGANICS AND VARIOUS TREATMENT TECHNIQUES. INCLUDED IN THE PUBLICATION ARE: (1) A SURVEY OF TOX AND THM LEVELS IN SIX U.S. CITIES; (2) AN EVALUATION OF TOX REACTION CURVES; AND (3) PILOT-PLANT EVALUATIONS OF TREATMENT TECHNIQUES TO REDUCE TOX AND THM LEVELS.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014942

PUBLICATION DATE: 87

TITLE: GAC FILTER-ABSORBERS.

DESCRIPTOR: *DESIGN; *GRANULAR ACTIVATED CARBON; *GAC; *FILTERS; *OPERATIONS (WATER); *PERFORMANCE EVALUATION; *WATER TREATMENT

DESCRIPTIVE NOTE: ORDER NO.: 90524 KJ; MEMBERS: $14.50; NONMEMBERS: $18.00

ABSTRACT: THIS REPORT PRESENTS INFORMATION ON THE SIGN, OPERATION, AND PERFORMANCE OF GAC FILTER-ADSORBERS. INFORMATION IS INCLUDED ON: (1) HOW TO DECIDE WHETHER TO USE GRANULAR ACTIVATED CARBON (GAC) AS A REPLACEMENT FOR CONVENTIONAL GRANULAR FILTER MEDIA; (2) DESIGNING AND BUILDING A NEW SYSTEM SPECIFICALLY FOR GAC; (3) HOW TO ADEQUATELY DESIGN AND SPECIFY THE RETROFIT AND REPLACEMENT; AND (4) EFFECTIVELY OPERATING THE SYSTEM AFTER REPLACEMENT.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014943

PUBLICATION DATE: 87

TITLE: IDENTIFICATION AND TREATMENT OF TASTES AND ODORS IN DRINKING WATER.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *ODORS; *OPERATIONS (WATER); *TASTES; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: ORDER NO.: 90518 KP; MEMBERS: $25.50; NONMEMBERS: $32.00

ABSTRACT: THIS MANUAL PRESENTS INFORMATION ON THE IDENTIFICATION AND TREATMENT OF TASTES AND ODORS IN DRINKING WATER. TOPICS COVERED INCLUDE: (1) THE PHYSIOLOGY OF TASTES AND ODORS; (2) METHODS TO ASSESS YOUR WATER QUALITY; (3) UNDERSTANDING SOURCES; (4) CLASSIFICATION SCHEMES; (5) SENSORY AND CHEMICAL ANALYSES; AND (6) TREATMENT TECHNIQUES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, COMPUTER SERVICES DEPARTMENT, 6666 WEST QUINCY AVENUE, DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014944

PUBLICATION DATE: 87

TITLE: STATISTICAL METHODS FOR ENVIRONMENTAL POLLUTION MONITORING.

PERSONAL AUTHOR: GILBERT, RICHARD O.

DESCRIPTOR: *DATA ANALYSIS; *ENVIRONMENT; *INSTRUCTIONAL MATERIALS; *POLLUTION; *POLLUTION LEVELS; *STATISTICAL METHODS; *SAMPLING; *MONITORING; *RESEARCH

DESCRIPTIVE NOTE: 384P. ORDER NO.: 23050-8

ABSTRACT: THIS GUIDE EXPLAINS STATISTICAL METHODS FOR DESIGNING ENVIRONMENTAL SAMPLING, AND MONITORING PROGRAMS, AND ANALYZING RESULTS. A VARIETY OF TOPICS ARE INCLUDED TO ASSIST THE READER INVOLVED TN DETERMINING VARIOUS ASPECTS OF POLLUTION.

AVAILABILITY: VAN NOSTRAND REINHOLD, MAIL ORDER DEPT., P.O. BOX 668, FLORENCE, KY 41042-9979

IRIS ACCESSION NUMBER: EW014945

PUBLICATION DATE: APR 87

TITLE: MUNICIPAL SOLID WASTE INCINERATOR ASH MANAGEMENT AND DISPOSAL DATA ENTERIES.

DESCRIPTOR: *ASH; *ASH CHARACTERISTICS; *INCINERATORS; *INCINERATION; *MANAGEMENT; *SOLID WASTES; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 25P.

ABSTRACT: THIS PUBLICATION CONTAINS DATA ENTRIES IN THE CATEGORY OF MUNICIPAL SOLID WASTE ASH AS OF FEBRUARY 1987. FIFTEEN REFERENCES ARE LISTED.

AVAILABILITY: INSTITUTE FOR LOCAL SELF-RELIANCE, 2425 18TH STREET, N.W., WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014946

PUBLICATION DATE: NOV 85

TITLE: RESOURCE RECOVERY STATE-OF-THE-ART: A DATA POOL FOR LOCAL DECISION-MAKERS.

DESCRIPTOR: *PLANNING; *ECONOMICS; *ENVIRONMENT; *POLICIES; *NEW JERSEY; *PERFORMANCE EVALUATION; *RESOURCE RECOVERY; *RECYCLING; *WASTE DISPOSAL; WASTE UTILIZATION; *TECHNOLOGY; *TRENDS

DESCRIPTIVE NOTE: 99P.

ABSTRACT: THIS REPORT WAS PREPARED AS PART OF THE NEW JERSEY WASTE UTILIZATION PROJECT. THE PUBLICATION PROVIDES INFORMATION ON WASTE RECOVERY AND UTILIZATION TECHNOLOGIES, ENVIRONMENTAL AND FINANCIAL ASPECTS, AND IMPLEMENTATION STRATEGIES FOR SOLID WASTE MANAGEMENT. SECTIONS INCLUDE AN INTRODUCTION, OVERVIEW OF AVAILABLE PROCESSING TECHNOLOGIES, DETAILED TECHNOLOGY ASSESSMENT, EVALUATION AND SELECTION OF TECHNOLOGY MIX, REFERENCES AND BIBLIOGRAPHY, AND APPENDICES.

AVAILABILITY: INSTITUTE FOR LOCAL SELF-RELIANCE, 2425 18TH STREET, NW, WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014947

PUBLICATION DATE: MAR 86

TITLE: WASTE UTILIZATION IN NEW JERSEY: PROBLEMS AND OPPORTUNITIES.

DESCRIPTOR: *ECONOMICS; *ENVIRONMENTAL IMPACT; *PUBLIC HEALTH; *POLICIES; *NEW JERSEY; *PLANNING; *RECYCLING; *RESOURCE RECOVERY; *WASTE UTILIZATION; *WASTE DISPOSAL; *SOLID WASTES

DESCRIPTIVE NOTE: 41P.

ABSTRACT: THIS REPORT WAS PREPARED AS A PART OF THE NEW JERSEY WASTE UTILIZATION PROJECT. THE OBJECTIVE OF THIS ASSESSMENT WAS TO STIMULATE A CONSENSUS PLANNING PROCESS IDENTIFYING GOALS THAT CAN BE ATTAINED THROUGH MAXIMIZED RECYCLING, WASTE UTILIZATION, AND ECONOMIC DEVELOPMENT AND MINIMIZED WASTE RESIDUALS. SECTIONS INCLUDE AN INTRODUCTION TO THE PROJECT, A DEFINITION OF TERMS, SOME BACKGROUND INFORMATION, SOME PREVIOUS AND CURRENT ACTIVITIES IN NEW JERSEY, AND SOME CHALLENGES AND OPPORTUNITIES. THE APPENDICES CONTAIN THE AGENDAS FOR TWO MEETINGS AND SOME SELECTED INTERVIEWS.

AVAILABILITY: INSTITUTE FOR LOCAL SELF-RELIANCE, 2425 18TH

STREET, N.W., WASHINGTON, D.C. 20009

IRIS ACCESSION NUMBER: EW014948

PUBLICATION DATE: AUG 87

TITLE: SOLVENT RECOVERY.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *AIR POLLUTION CONTROL; *RESOURCE RECOVERY; *SOLVENTS; *SOLVENT RECOVERY; *TECHNOLOGY; *VOLATILE ORGANIC COMPOUNDS

DESCRIPTIVE NOTE: 62-69P.

ABSTRACT: THIS ARTICLE PRESENTS THE THIRD ANNUAL REVIEW OF SOLVENT RECOVERY AND VOLATILE ORGANIC COMPOUNDS (VOC) CONTROL FROM INDUSTRIAL RESOURCES.

AVAILABILITY: POLLUTION ENGINEERING; V19 N8

IRIS ACCESSION NUMBER: EW014949

PUBLICATION DATE: AUG 87

TITLE: PCB DESTRUCTION BY INCINERATION.

PERSONAL AUTHOR: TESSITORE, J. L.; AND OTHERS

DESCRIPTOR: *INCINERATION; OIL; *PCBS; *PERFORMANCE EVALUATION; SOILS; *WASTE DISPOSAL; SLUDGE; *TOXIC SUBSTANCES

DESCRIPTIVE NOTE: 70-75P.

ABSTRACT: THIS ARTICLE DISCUSSES THE BURNING OF PCB CONTAMINATED MATERIALS AT THE EPA COMBUSTION RESEARCH FACILITY IN PINE BLUFF, ARKANSAS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N8

IRIS ACCESSION NUMBER: EW014950

PUBLICATION DATE: AUG 87

TITLE: RISK REDUCTION RESOURCE RECOVERY.

PERSONAL AUTHOR: RICH, GERALD A.

DESCRIPTOR: *ECONOMICS; *CONSTRUCTION; *FACILITIES; *MARKETING; *RISK REDUCTION; *RESOURCE RECOVERY; *WASTE DISPOSAL; *WASTE PROCESSING

DESCRIPTIVE NOTE: 76-79P.

ABSTRACT: THIS ARTICLE CONSIDERS RISK REDUCTION PROCEDURES AND RELATED RESOURCE RECOVERY FACILITIES THAT PROCESS WASTES. RISKS ARE DISCUSSED UNDER THE FOLLOWING TOPICS: (1) WASTE STREAM; (2) FACILITY CONSTRUCTION; (3) FACILITY OPERATION; (4) MARKETING; AND (5) DISPOSAL.

AVAILABILITY: POLLUTION ENGINEERING; V19 N8

IRIS ACCESSION NUMBER: EW014951

PUBLICATION DATE: 87

TITLE: ACID RAIN: 1986, A HANDBOOK FOR STATES AND PROVINCES: RESEARCH, INFORMATION, POLICY.

DESCRIPTOR: *AIR POLLUTION; *ACID RAIN; *CANADA; *CONFERENCE PROCEEDINGS; *ENVIRONMENTAL IMPACT; *INFORMATION SOURCES; *INDUSTRIAL POLLUTION; *POLICIES; *PROGRAM DESCRIPTIONS; *POLLUTION; *POLLUTION CONTROL; *UNITED STATES

DESCRIPTIVE NOTE: 610P. ISBN 0-935577-07-6; U.S. - $55.00, INTERNATIONAL - $65.00

ABSTRACT: THIS BOOK CONTAINS INFORMATION ON UNITED STATES AND CANADIAN PROGRAMS AT THE STATE AND PROVINCIAL LEVELS DERIVED FROM A CONFERENCE HELD IN SEPTEMBER 1986. INCLUDED ARE RESOURCE MATERIALS AND PRESENTATIONS FROM THE ELECTRIC POWER RESEARCH INSTITUTE, SOUTHERN STATES ENERGY BOARD, NATURAL RESOURCES DEFENSE COUNCIL, NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM, U.S. FOREST SERVICE, ENVIRONMENT CANADA, AND OTHERS. A PARTICIPANT LIST AND INFORMATION SOURCES ARE INCLUDED.

AVAILABILITY: THE ACID RAIN FOUNDATION, INC., 1630 BLACKHAWK HILLS, ST. PAUL, MN 55122

IRIS ACCESSION NUMBER: EW014952

PUBLICATION DATE: FEB 87

TITLE: TECHNICAL ASSESSMENT OF LOW-PRESSURE PIPE WASTEWATER INJECTION SYSTEMS.

PERSONAL AUTHOR: HARGETT, DAVID L.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *LOW-PRESSURE PIPE; *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *TECHNOLOGY; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 87P.

ABSTRACT: THE PURPOSE OF THIS STUDY WAS TO REVIEW ALL TECHNICAL AND PRACTICAL EXPERIENCE WITH LOW-PRESSURE PIPE (LPP) SYSTEMS, AND CHARACTERIZE TYPICAL SYSTEMS AND THEIR FIELD PERFORMANCE. A REVIEW OF AVAILABLE INFORMATION ON LPP SYSTEMS IS PRESENTED IN THIS REPORT. TO AUGMENT THESE DATA, 12 TYPICAL LPP FACILITIES WERE MONITORED OVER THE WINTER-SPRING STRESS PERIOD OF OCTOBER 1982 TO JULY 1983. DETAILED SYSTEM DESIGN SPECIFICATIONS, SOIL CONDITIONS, FLOW ESTIMATES, BACKGROUND AND INTRENCH MOISTURE CONDITIONS, AND NUMEROUS OTHER PERFORMANCE INDICATORS ARE REPORTED IN THIS TECHNICAL ASSESSMENT. STUDY METHODS ARE PRESENTED, RESULTS

ARE DISCUSSED AND SUMMARIZED, WITH CONCLUSIONS, AND RECOMMENDATIONS ARE MADE FOR FURTHER RESEARCH.

AVAILABILITY: WATER ENGINEERING RESEARCH LABORATORY, OFFICE OF RESEARCH AND DEVELOPMENT, U.S. ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OH 45268

IRIS ACCESSION NUMBER: EW014953

PUBLICATION DATE: DEC 83

TITLE: SEPTIC TANK EFFLUENT TREATMENT USING AN ANAEROBIC FILTER.

PERSONAL AUTHOR: VIRARAGHAVAN, T.; KENT, RON

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *ANAEROBIC FILTERS; *CANADA; *COSTS; *EFFLUENT; *LITERATURE REVIEWS; *ONSITE WASTEWATER TREATMENT; *PERFORMANCE EVALUATION; *RECOMMENDATIONS; *WASTEWATER TREATMENT; *WATER QUALITY; *SEPTIC TANKS

DESCRIPTIVE NOTE: 55P.

ABSTRACT: THIS REPORT REVIEWS LITERATURE ON ANAEROBIC FILTER TREATMENT OF SEPTIC TANK EFFLUENT, ASSESSES THE SUITABILITY OF SUCH A TREATMENT FOR CANADIAN CONDITIONS AND PRESENTS A SUITABLE CONCEPTUAL SYSTEM FOR USE ALONG WITH COST INFORMATION. AREAS FOR FURTHER RESEARCH ARE IDENTIFIED.

AVAILABILITY: FACULTY OF ENGINEERING, UNIVERSITY OF REGINA, REGINA, SASKATCHEWAN, CANADA S4S 0A2

IRIS ACCESSION NUMBER: EW014955

PUBLICATION DATE: MAY 87

TITLE: RECOVERABLE MATERIALS AND ENERGY FROM INDUSTRIAL WASTE STREAMS.

DESCRIPTOR: *ECONOMICS; *ENVIRONMENTAL IMPACT; *RECYCLING; *RESOURCE RECOVERY; *INDUSTRIAL WASTES; *WASTE REDUCTION; *WASTEWATER; WASTE DISPOSAL; *TEXTILE INDUSTRY; ELECTROPLATING INDUSTRY; FOOD PROCESSING INDUSTRY; IRON INDUSTRY; *WASTEWATER TREATMENT; CHEMICAL INDUSTRY; PETROLEUM INDUSTRY; PAPER INDUSTRY

DESCRIPTIVE NOTE: 152P. MEMBER - $20.50, NON-MEMBER - $25.50; 20234 LX

ABSTRACT: THIS BOOK PROBES AMERICAN INDUSTRIES TO IDENTIFY MATERIALS THAT CAN BE RECOVERED AND RECYCLED FROM THEIR WASTE STREAMS. THE CONTENTS OF THESE WASTE STREAMS ARE EXAMINED TO DETERMINE THE ECONOMIC AND TECHNOLOGICAL FEASIBILITY OF THEIR REUSE, RESALE, AND CONVERSION TO ENERGY. SPECIFIC INDUSTRIES EXAMINED INCLUDE: (1) ELECTROPLATING; (2) FOOD-PROCESSING; (3) IRON AND STEEL; (4) ORGANIC CHEMICALS; (5) PETROLEUM REFINING; (6) PULP AND PAPER; AND (7) TEXTILES.

AVAILABILITY: AMERICAN WATER WORKS ASSOCIATION, 6666 W. QUINCY AVE., DENVER, CO 80235

IRIS ACCESSION NUMBER: EW014956

PUBLICATION DATE: 87

TITLE: THE TROUBLE WITH TOXICS.

DESCRIPTOR: AUDIOVISUAL AIDS; *ENVIRONMENTAL IMPACT; *FISH; *GREAT LAKES; *LAKES; *TOXIC SUBSTANCES; VIDEOTAPES; *WATER RESOURCES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: HALF-HOUR VIDEO TAPE. PURCHASE: 1/2IN. $35.00, 3/4IN. $75.00. RENTAL: $10.00, CAN KEEP ONLY FOR FIVE DAYS (WAITING LIST).

ABSTRACT: THIS VIDEO DOCUMENTARY ABOUT GREAT LAKES TOXIC CONTAMINATION CONTAINS DISCUSSIONS OF THE FOLLOWING TOPICS: (1) SOURCES AND FATE OF TOXICANTS; (2) EFFECTS OF TOXICANTS IN THE GREAT LAKES; (3) HOW TOXIC CONTAMINATION AFFECTS THE GREAT LAKES FISHERY; AND (4) PREVENTION AND CONTROL OF TOXIC CONTAMINATION.

AVAILABILITY: MICHIGAN SEA GRANT EXTENSION COMMUNICATIONS, 332 NATURAL RESOURCES BUILDING, MICHIGAN STATE UNIV., EAST LANSING, MI 48824

IRIS ACCESSION NUMBER: EW014957

PUBLICATION DATE: MAR 87

TITLE: BIOACCUMULATION MONITORING GUIDANCE: SELECTION OF TARGET SPECIES AND REVIEW OF AVAILABLE DATA. VOLUME II.

DESCRIPTOR: BIOLOGY; *BIOLOGICAL INDICATORS; *BIOACCUMULATION; *LITERATURE REVIEWS; *COASTAL WATERS; SAMPLING; MONITORING; *OCEANS; *GUIDANCE MANUALS; *WATER QUALITY; *WATER POLLUTION CONTROL; *SUMMARY DATA; *TISSUE CHEMISTRY

DESCRIPTIVE NOTE: 384P. PRICE: $24.04

ABSTRACT: THE GUIDANCE PROVIDED IN THIS DOCUMENT PROVIDES ASSISTANCE IN THE SELECTION OF TARGET SPECIES FOR BIOACCUMULATION STUDIES FOR SEVERAL MAJOR COASTAL AREAS IN THE UNITED STATES. THIS PUBLICATION IS VOLUME II OF A TWO-VOLUME SERIES. THIS VOLUME CONTAINS A DETAILED COMPILATION OF AVAILABLE TISSUE CHEMISTRY DATA FOR THE RECOMMENDED TARGET SPECIES. VOLUME I IN THE SERIES IS EW 014 896.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014958

PUBLICATION DATE: MAR 87

TITLE: RECOMMENDED BIOLOGICAL INDICES FOR 301(H) MONITORING PROGRAMS.

DESCRIPTOR: *BIOLOGICAL COMMUNITIES; *BIOLOGICAL INDICATORS; *BIOLOGICAL INDICES; *ENVIRONMENT; *ENVIRONMENTAL QUALITY; *MONITORING; *RECOMMENDATIONS; *301(H) PROGRAMS; *SURVEYS; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 21P. PRICE: $2.28

ABSTRACT: FIFTEEN BIOLOGICAL INDICES ARE REVIEWED IN THIS DOCUMENT. NINE ARE RECOMMENDED FOR USE IN 301(H) MONITORING PROGRAMS.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RECOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014959

PUBLICATION DATE: MAR 87

TITLE: QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) FOR 301(H) MONITORING PROGRAMS: GUIDANCE ON FIELD AND LABORATORY METHODS.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *CLEAN WATER ACT; *EFFLUENT; *FIELD METHODS; *LABORATORY PROCEDURES; *MANUALS; *MONITORING; *REGULATIONS; *SAMPLING; *301(H) PROGRAMS; *WATER QUALITY; *USEPA; *QUALITY CONTROL

DESCRIPTIVE NOTE: 290P. PRICE: $18.40

ABSTRACT: THIS MANUAL IS THE RESULT OF SEVERAL YEARS OF EXPERIENCE AND EFFORT IN DESIGNING, IMPLEMENTING, AND REPORTING RESULTS OF FIELD AND LABORATORY MONITORING PROGRAMS WITH THE AVOWED PURPOSE OF ENCOURAGING BOTH NATIONAL AND REGIONAL CONSISTENCY IN ESTUARINE AND MARINE MONITORING PROGRAMS. PROCEDURES ARE INCLUDED FOR ENVIRONMENTAL VARIABLES THAT MAY BE MEASURED IN EFFLUENT, RECEIVING WATER, SEDIMENT, AND ORGANISM TISSUES SAMPLED DURING 301(H) MONITORING PROGRAMS. QUALITY ASSURANCE AND QUALITY CONTROL PROCEDURES ARE PROVIDED FOR SAMPLE COLLECTION, FIELD SAMPLE HANDLING, AND LABORATORY PROCESSING TO IMPLEMENT SPECIFIC MONITORING PROGRAM REQUIREMENTS PROVIDED IN THE 301(H) MODIFIED PERMIT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014961

PUBLICATION DATE: SEP 87

TITLE: INNOVATION AND ALTERNATIVE TECHNOLOGY PROJECTS. 1987 PROGRESS REPORT.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *INNOVATIVE TECHNOLOGY; *CASE STUDIES; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PROJECT DESCRIPTIONS; *PROGRESS REPORTS; *TECHNOLOGY; *USEPA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 70P. PRICE: $2.50

ABSTRACT: THIS PUBLICATION PRESENTS A PROGRESS REPORT ON INNOVATIVE AND ALTERNATIVE (I/A) TECHNOLOGY WASTEWATER PROJECTS. INCLUDED IS AN OVERVIEW AND TABLES LISTING VARIOUS PROJECTS FUNDED THROUGH THE I/A PROGRAM. THIS IS A CONTINUATION OF THE SERIES; COPIES FOR PREVIOUS YEARS ARE AVAILABLE. INFORMATION IS GIVEN ON THE SITE OF THE INNOVATION, PROCESS OR INNOVATION BEING USED, DESIGN FLOW, AND THE CONSULTING FIRM.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW014962

PUBLICATION DATE: 82

TITLE: BASIC SANITATION TECHNOLOGIES SUITABLE FOR SMALLER EUROPEAN COMMUNITIES. REPORT ON A WHO WORKING GROUP.

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *CONFERENCE PROCEEDINGS; *EUROPE; *DRINKING WATER; *RECOMMENDATIONS; *RURAL AREAS; *SANITATION; *TECHNOLOGY; *SOLID WASTES; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 31P.

ABSTRACT: THIS REPORT PROVIDES DISCUSSION AND CONCLUSIONS OF A MEETING WITH REPRESENTATIVES FOR 13 COUNTRIES. INCLUDED ARE DISCUSSION AND CONCLUSIONS RELATED TO: (1) LIQUID WASTE DISPOSAL TECHNOLOGY; (2) SOLID WASTES; (3) HIGHWAY CLEANING; (4) WATER FOR HUMAN CONSUMPTION; (5) OPERATION AND MAINTENANCE PROBLEMS; AND (6) GROUPING OF COMMUNITIES. A SECTION ON RECOMMENDATIONS AND A BIBLIOGRAPHY ARE INCLUDED.

AVAILABILITY: WORLD HEALTH ORGANIZATION, 8, SCHERFIGSVEJ, DK-2100 COPENHAGEN O-DENMARK

IRIS ACCESSION NUMBER: EW014963

PUBLICATION DATE: 87

TITLE: HAZARDOUS MATERIALS NEWSLETTER. AUGUST 1, 1987.

PERSONAL AUTHOR: CASHMAN, JOHN R.

DESCRIPTOR: EMERGENCY RESPONSE; *HAZARDOUS MATERIALS; EQUIPMENT; *INFORMATION RESOURCES; MANAGEMENT; *NEWSLETTERS; SPILLS; REGULATIONS; RESEARCH; WASTE DISPOSAL; WASTE STORAGE; WASTE TRANSPORTATION; POLLUTION CONTROL

DESCRIPTIVE NOTE: 10P. AVAILABLE BY SUBSCRIPTION. CONTACT THE PUBLISHER FOR PRICES.

ABSTRACT: THIS NEWSLETTER, PUBLISHED SIX TIMES A YEAR, CONTAINS INFORMATION ON HAZARDOUS MATERIALS EMERGENCIES WITH EMPHASIS ON TOOLS, EQUIPMENT, MATERIALS, INCIDENT MITIGATION, PROTOCOLS, RESEARCH SOURCES AND RESOURCES, MANAGEMENT, AND PROBLEMS. EACH ISSUE ALSO CONTAINS REPORTS OF INCIDENTS THAT HAVE OCCURED. A CALENDAR OF MEETINGS, CONFERENCES, AND TRAINING OPPORTUNITIES IS INCLUDED.

AVAILABILITY: HAZARDOUS MATERIALS NEWSLETTER, P.O. BOX 204, BARRE, VERMONT 05641

IRIS ACCESSION NUMBER: EW014964

PUBLICATION DATE: SEPT 87

TITLE: PROGRAMMABLE CONTROL OF HIGH RATE ANAEROBIC TREATMENT.

PERSONAL AUTHOR: COOPER, J.I.; AND OTHERS

DESCRIPTOR: *AUTOMATIC CONTROLS; *COMPUTER APPLICATIONS; ANAEROBIC TREATMENT; *DESIGN; *FACILITIES; *OPERATIONS (WASTEWATER); METHANE; *MANAGEMENT; SAFETY; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 52-54P.

ABSTRACT: DESCRIBED IS AN ANAEROBIC WASTEWATER PRETREATMENT PLANT IN INDIANA THAT USES PRECISE PROGRAMMABLE CONTROLLERS AND GAS PRODUCTION SAFETY AND USE.

AVAILABILITY: POLLUTION ENGINEERING; V19 N9

IRIS ACCESSION NUMBER: EW014965

PUBLICATION DATE: SEPT 87

TITLE: EGG-SHAPED ANAEROBIC DIGESTERS.

PERSONAL AUTHOR: GARVIN, JOHN P.; HILLS, RICHARD E.

DESCRIPTOR: *ANAEROBIC DIGESTERS; *DIGESTERS; *DESIGN; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 56-60P.

ABSTRACT: DESCRIBED ARE EGG-SHAPED ANAEROBIC DIGESTERS. BENEFITS OF THE DESIGN AND OPERATIONS ARE DISCUSSED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N9

IRIS ACCESSION NUMBER: EW014966

PUBLICATION DATE: SEPT 87

TITLE: BOOSTING TREATMENT POND PERFORMANCE.

PERSONAL AUTHOR: NGO, VIET; POOLE, WARREN

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *BIOLOGICAL TREATMENT; *OPERATIONS (WASTEWATER); *POND SYSTEMS; *AQUACULTURE SYSTEMS; *PERFORMANCE EVALUATION; *TEMNA; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 62-63P.

ABSTRACT: DESCRIBED IS A NEW PATENTED TREATMENT PROCESS THAT IS AN ADAPTATION OF TYPICAL POND SYSTEMS, BUT ADDS THE ADVANTAGES OF AN AQUACULTURE TREATMENT. THE PROCESS IS CAPABLE OF REDUCING BOD AND TOTAL SUSPENDED SOLIDS (TSS), ELIMINATING MOST ALGAE AND ODORS, AND REDUCING NUTRIENTS AND HEAVY METALS. THE SYSTEM USES TEMNA PLANTS WITH A FLOATING BARRIER SYSTEM.

AVAILABILITY: POLLUTION ENGINEERING; V19 N9

IRIS ACCESSION NUMBER: EW014967

PUBLICATION DATE: SEPT 87

TITLE: BIOTECHNOLOGY: TREATING INDUSTRIAL/MUNICIPAL WASTES AND WASTEWATER.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *BIOLOGICAL TREATMENT; *INDUSTRIAL WASTES; *INDUSTRIAL WASTEWATER; *MUNICIPAL WASTES; *MUNICIPAL WASTEWATER; *OPERATIONS (WASTES); *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT; *WASTE TREATMENT

DESCRIPTIVE NOTE: 74-87P.

ABSTRACT: DESCRIBED ARE A VARIETY OF BIOLOGICAL TREATMENT APPROACHES FOR TREATING INDUSTRIAL AND MUNICIPAL WASTES AND WASTEWATER. EACH PROCESS IS BRIEFLY DESCRIBED AND SOME OF THE ADVANTAGES OF THE PROCESSES ARE CONSIDERED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N9

IRIS ACCESSION NUMBER: EW014968

PUBLICATION DATE: SEPT 87

TITLE: BIOLOGICAL PHOSPHORUS REMOVAL: STATE OF THE ART REVIEW.

PERSONAL AUTHOR: ECKENFELDER, W. WESLEY, JR.

DESCRIPTOR: *BIOLOGICAL TREATMENT; *LITERATURE REVIEWS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PHOSPHORUS; *PHOSPHORUS REMOVAL; *STATE-OF-THE-ART REVIEWS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 88-93P.

ABSTRACT: THIS IS A BRIEF STATE-OF-THE-ART REVIEW ON BIOLOGICAL PHOSPHORUS REMOVAL.

AVAILABILITY: ON ENGINEERING; V19 N9

IRIS ACCESSION NUMBER: EW014972

PUBLICATION DATE: 87

TITLE: WATER DISTRIBUTION SYSTEM OPERATION AND MAINTENANCE.

PERSONAL AUTHOR: KERRI, KENNETH D.; AND OTHERS

DESCRIPTOR: *COURSE DESCRIPTIONS; *DRINKING WATER; *INSTRUCTIONAL MATERIALS; *MAINTENANCE; *OPERATIONS (WATER); *POSTSECONDARY EDUCATION; *INDEPENDENT LEARNING; *TRAINING; *WATER DISTRIBUTION; *WATER TREATMENT; WATER QUALITY

DESCRIPTIVE NOTE: 508P.

ABSTRACT: THE OBJECTIVE OF THIS MANUAL IS TO PROVIDE WATER DISTRIBUTION SYSTEM OPERATORS WITH THE KNOWLEDGE AND SKILLS REQUIRED TO OPERATE AND MAINTAIN WATER SYSTEMS EFFECTIVELY. THIS MANUAL WAS DEVELOPED TO SERVE AS A HOME-STUDY OR SELF-PACED INSTRUCTIONAL COURSE. THE DOCUMENT CONTAINS INFORMATION ON: (1) WHAT WATER DISTRIBUTION OPERATORS DO; (2) PROCEDURES FOR OPERATING AND MAINTAINING CLEAR WELLS AND STORAGE TANKS; (3) CHARACTERISTICS OF DISTRIBUTION SYSTEM FACILITIES; (4) HOW TO OPERATE AND MAINTAIN DISTRIBUTION FACILITIES; (5) HOW TO MAINTAIN WATER QUALITY IN DISTRIBUTION SYSTEMS; (6) DISINFECTION OF NEW AND REPAIRED FACILITIES AS WELL AS WATER DELIVERED TO CONSUMERS; AND (7) TECHNIQUES FOR RECOGNIZING HAZARDS AND DEVELOPING SAFE PROCEDURES AND SAFETY PROGRAMS. THE APPENDICES INCLUDE A TRIAL FINAL EXAMINATION (WITH ANSWERS), TIPS ON SOLVING WATER DISTRIBUTION ARITHMETIC PROBLEMS, WATER ABBREVIATIONS, A GLOSSARY OF WATER WORDS, AND SUBJECT INDEX.

AVAILABILITY: KENNETH KERRI, HORNET FOUNDATION, INC., CAL. STATE UNIV., 6000 "J" STREET, SACRAMENTO, CA 95819-2694

IRIS ACCESSION NUMBER: EW014973

PUBLICATION DATE: 86

TITLE: TREATMENT OF WASTEWATER FROM ELECTROPLATING, METAL FINISHING AND PRINTED CIRCUIT BOARD MANUFACTURING.

PERSONAL AUTHOR: KERRI, KENNETH D.; AND OTHERS

DESCRIPTOR: *INDUSTRIAL WASTES; *INSTRUCTIONAL MATERIALS; *METALS; *INDEPENDENT LEARNING; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *TRAINING; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 143P.

ABSTRACT: THIS DOCUMENT WAS DESIGNED TO ADDRESS THE TREATMENT OF WASTEWATER FROM ELECTROPLATING, METAL FINISHING, AND PRINTED CIRCUIT BOARD MANUFACTURING. THE DOCUMENT EMPHASIZES HOW TO OPERATE AND MAINTAIN FACILITIES WHICH NEUTRALIZE ACIDIC AND BASIC WATERS, TREAT WATERS CONTAINING METALS, DESTROY CYANIDE, AND ALSO TREAT COMPLEX METAL WASTES. THE MANUAL CONTAINS INFORMATION ON: (1) THE NEED TO TREAT METAL WASTESTREAMS; (2) THE IDENTIFICATION OF THE SOURCES OF METAL WASTESTREAMS; (3) HOW TO SAFELY STORE AND HANDLE CHEMICALS FROM A MATERIAL SAFETY DATA SHEET (MSDS); (4) WHAT EMPLOYERS MUST PROVIDE OPERATORS REGARDING THE HANDLING OF AND EXPOSURE TO HAZARDOUS MATERIALS IN THE WORKPLACE (EMPLOYEE RIGHT-TO-KNOW LEGISLATION); (5) HOW TO OPERATE AND MAINTAIN NEUTRALIZATION, METAL PRECIPITATION, CYANIDE DESTRUCTION, AND COMPLEX METAL TREATMENT FACILITIES; (6) HOW TO COLLECT, TREAT, AND DISPOSE OF SLUDGES GENERATED BY THESE TREATMENT PROCESSES; AND (7) HOW TO TROUBLESHOOT TREATMENT FACILITIES DESCRIBED IN THE MANUAL. THE DOCUMENT WAS DESIGNED AS A HOME-STUDY OR SELF-PACED INSTRUCTIONAL COURSE. INCLUDED ARE A FINAL EXAMINATION, A GLOSSARY OF TERMS, AND TIPS ON SOLVING ARITHMETIC PROBLEMS RELATING TO THIS TOPIC.

AVAILABILITY: KENNETH KERRI, HORNET FOUNDATION, INC., CAL. STATE UNIV., 6000 "J" STREET, SACRAMENTO, CA 95819-2694

IRIS ACCESSION NUMBER: EW014974

PUBLICATION DATE: 87

TITLE: SMALL WATER SYSTEM OPERATIONS AND MAINTENANCE.

PERSONAL AUTHOR: KERRI, KENNETH D.; AND OTHERS

DESCRIPTOR: *COURSE DESCRIPTIONS; *DRINKING WATER; *INSTRUCTIONAL MATERIALS; *INDEPENDENT STUDY; *MAINTENANCE; *OPERATIONS (WATER); *POSTSECONDARY EDUCATION; *RURAL AREAS; *SMALL SYSTEMS; *WATER TREATMENT; *TRAINING; *WATER QUALITY

DESCRIPTIVE NOTE: 487P.

ABSTRACT: THE OBJECTIVE OF THIS MANUAL IS TO PROVIDE SMALL WATER SYSTEM OPERATORS WITH THE KNOWLEDGE AND SKILLS REQUIRED TO OPERATE AND MAINTAIN SMALL WATER SYSTEMS EFFECTIVELY. THIS MANUAL CONTAINS INFORMATION ON: (1) WHAT SMALL WATER SYSTEM OPERATORS DO; (2) SOURCES AND USES OF WATER; (3) HOW TO OPERATE AND MAINTAIN WELLS AND PUMPS; (4) THE OPERATION AND MAINTENANCE OF SMALL WATER TREATMENT PLANTS; (5) THE DISINFECTION OF NEW AND REPAIRED FACILITIES AS WELL AS WATER DELIVERED TO CONSUMERS; (6) TECHNIQUES FOR RECOGNIZING HAZARDS AND DEVELOPING SAFE PROCEDURES AND SAFETY PROGRAMS; (7) LABORATORY PROCEDURES FOR ANALYZING SAMPLES OF WATER; AND (8) PROCEDURES TO DEVELOP A REASONABLE RATE STRUCTURE. THE DOCUMENT WAS DEVELOPED TO SERVE AS A HOME-STUDY OR SELF-PACED INSTRUCTIONAL COURSE. THE APPENDICES INCLUDE A TRIAL FINAL EXAMINATION (WITH ANSWERS), TIPS ON SOLVING SMALL WATER SYSTEM ARITHMETIC PROBLEMS, WATER ABBREVIATIONS, A GLOSSARY OF WATER WORDS, AND A SUBJECT INDEX.

AVAILABILITY: KENNETH KERRI, HORNET FOUNDATION, INC., CAL. STATE UNIV., 6000 "J" STREET, SACRAMENTO, CA 95819-2694

IRIS ACCESSION NUMBER: EW014975

PUBLICATION DATE: 87

TITLE: COLORADO'S SATELLITE-LINKED WATER RESOURCES MONITORING SYSTEM.

PERSONAL AUTHOR: BROWN, R. STEVEN

DESCRIPTOR: COLORADO; MONITORING SYSTEMS; WATER RESOURCES

DESCRIPTIVE NOTE: 7P.

ABSTRACT: DESCRIBED IS A SYSTEM IN COLORADO THAT TRANSMITS WATER LEVEL DATA FROM 151 STREAM MONITORING GUAGES TO A SATELLITE. THE SATELLITE THEN SENDS THE DATA TO A CENTRAL LOCATION. THE SYSTEM PROVIDES THE STATE WITH THE CAPABILITY OF HAVING INSTANTANEOUS KNOWLEDGE OF THE CONDITION OF WATER LEVELS IN ITS STREAMS AND RIVERS AT ANY TIME.

AVAILABILITY: THE COUNCIL OF STATE GOVERNMENTS, IRON WORKS PIKE, P.O. BOX 11910, LEXINGTON, KY 40578

IRIS ACCESSION NUMBER: EW014976

PUBLICATION DATE: MAY 87

TITLE: THE ST. MARY'S RIVER, MICHIGAN: AN ECOLOGICAL PROFILE. BIOLOGICAL REPORT 85 (7.10).

PERSONAL AUTHOR: DUFFY, WALTER G.; AND OTHERS

DESCRIPTOR: *BIOLOGY; *ENVIRONMENT; *ECOSYSTEMS; *GEOLOGY; *ECOLOGY; *MICHIGAN; *MANAGEMENT; *RIVERS; *WATER RESOURCES; *WATER SUPPLY

DESCRIPTIVE NOTE: 156P.

ABSTRACT: THIS MONOGRAPH ON THE ECOLOGY OF THE ST. MARY'S RIVER IS ONE OF A SERIES OF U.S. FISH AND WILDLIFE SERVICE PROFILES CONCERNING IMPORTANT ECOSYSTEMS OF THE U.S. THE PURPOSE OF THIS PROFILE IS TO SYNTHESIZE THE LITERATURE AVAILABLE FOR ST. MARY'S RIVER AND TO DESCRIBE THE ECOLOGICAL STRUCTURE AND FUNCTIONING OF THE RIVER. THE RIVER IS THE SOLE OUTLET FROM LAKE SUPERIOR AND FORMS A CONNECTING CHANNEL TO LAKE HURON. SECTIONS ARE INCLUDED ON: (1) GEOLOGY AND HISTORY; (2) THE ENVIRONMENT; (3) THE BIOTA; (4) ECOLOGICAL RELATIONS; AND (5) MANAGEMENT.

AVAILABILITY: NATIONAL WETLANDS RESEARCH CENTER, FISH AND WILDLIFE SERVICE, U.S. DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. 20240

IRIS ACCESSION NUMBER: EW014977

PUBLICATION DATE: JUNE 87

TITLE: THE ENVIRONMENTAL IMPACT ASPECTS OF OIL SPILL DISPERSANT DECISION-MAKING.

PERSONAL AUTHOR: TRUDEL, KEN; ROSS, SY

DESCRIPTOR: *DECISION MAKING; *ENVIRONMENTAL IMPACT; *OIL DISPERSANTS; *OIL SPILLS; *OIL CLEAN UP; *POLLUTION CONTROL; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 35-40P.

ABSTRACT: A METHOD IS DESCRIBED FOR MAKING DISPERSANT-USE DECISIONS BASED ON ENVIRONMENTAL IMPACT CONSIDERATIONS. THE METHOD INVOLVES PREDICTING THE IMPACT OF A GIVEN SPILL IF TREATED WITH DISPERSANTS AND COMPARING IT WITH THE EFFECTS OF A GIVEN SPILL IF LEFT UNTREATED.

AVAILABILITY: SPILL TECHNOLOGY NEWSLETTER; V12 N2

IRIS ACCESSION NUMBER: EW014978

PUBLICATION DATE: JUNE 87

TITLE: PERSONAL PROTECTION IN SPILL SITUATIONS.

PERSONAL AUTHOR: FINGAS, MERVIN F.

DESCRIPTOR: *ACCIDENT PREVENTION; *CLOTHING; *EQUIPMENT; *HAZARDOUS MATERIALS; *GUIDELINES; *OCCUPATIONAL SAFETY; *SAFETY; *SPILLS; *TRAINING

DESCRIPTIVE NOTE: 41-61P.

ABSTRACT: DESCRIBED ARE VARIOUS HAZARDS FACED BY PEOPLE RESPONDING TO SPILLS INVOLVING HAZARDOUS MATERIALS. GUIDELINES TO HELP ENSURE THE PROTECTION OF PEOPLE ARE CONSIDERED. CHARTS ARE INCLUDED ON PROTECTIVE CLOTHING AND ACCESSORIES.

AVAILABILITY: SPILL TECHNOLOGY NEWSLETTER; V12 N2

IRIS ACCESSION NUMBER: EW014979

PUBLICATION DATE: FALL 87

TITLE: ACID DEPOSITION: THE EUROPEAN SITUATION.

PERSONAL AUTHOR: HART, DAVID

DESCRIPTOR: *ACID DEPOSITION; *COSTS; *EUROPE; *ENVIRONMENTAL IMPACT; *POLICIES; *EMISSIONS; *EMISSION REDUCTION; *POLLUTION CONTROL; *AIR POLLUTION; WEST GERMANY; UNITED KINGDOM

DESCRIPTIVE NOTE: 58-67P.

ABSTRACT: THIS ARTICLE DESCRIBES ACID DEPOSITION PROBLEMS IN EUROPE. INCLUDED ARE DATA ON EMISSIONS IN EUROPE, POSSIBLE REDUCTIONS, AND COSTS AND BENEFITS OF REDUCTIONS. POLICIES OF THE UNITED KINGDOM AND WEST GERMANY ARE CONSIDERED.

AVAILABILITY: FORUM; V2 N3

IRIS ACCESSION NUMBER: EW014980

PUBLICATION DATE: FALL 87

TITLE: BEYOND THE "NOT-IN-MY-BACKYARD" IMPASSE.

PERSONAL AUTHOR: PEELLE, ELIZABETH; ELLIS, RICHARD

DESCRIPTOR: *ATTITUDES; *CITIZEN ACTION; *HAZARDOUS WASTES; *DISPOSAL SITES; *LANDFILLS; *DETOXIFICATION; *PUBLIC PARTICIPATION; *POLICIES; *RECYCLING; *RESOURCE RECOVERY; *WASTE REDUCTION; *WASTE DISPOSAL; *ENVIRONMENTAL IMPACT; *WASTE FACILITIES; *RESEARCH REPORTS; *SURVEYS; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 68-77P.

ABSTRACT: THERE IS A GROWING CITIZEN REACTION AGAINST THE SITING OF WASTE FACILITIES IN THEIR LOCALITY. REPORTED IS A SURVEY OF 30 PEOPLE BELONGING TO CITIZEN ACTION AND ENVIRONMENTAL GROUPS IN TENNESSEE. ATTITUDES OF THE PEOPLE ARE REPORTED. DIFFERENCES ARE REPORTED BETWEEN THOSE WHO BELONGED TO LOCAL CITIZEN GROUPS AND THOSE BELONGING TO STATE, REGIONAL, AND NATIONAL GROUPS. AREAS OF AGREEMENT ARE ALSO NOTED INCLUDING SITING, ENFORCEMENT, CLOSED INFORMATION POLICIES, AND LACK OF TRUST IN OFFICIALS. EFFECTIVE PUBLIC PARTICIPATION, WASTE REDUCTION, RECYCLING, AND DETOXIFICATION ARE RECOMMENDED AS PROCEDURES FOR IMPROVING WASTE DISPOSAL PROBLEMS.

AVAILABILITY: FORUM; V2 N3

IRIS ACCESSION NUMBER: EW014981

PUBLICATION DATE: FALL 87

TITLE: STATE ROLES IN SITING HAZARDOUS WASTE FACILITIES.

PERSONAL AUTHOR: HODGES-COPPLE, JOHN

DESCRIPTOR: LIABILITIES; *FACILITIES; BENEFITS; *HAZARDOUS WASTES; INCENTIVES; *REGULATIONS; *POLICIES; *STATE ROLE; *STATE RESPONSES; *WASTE DISPOSAL; *WASTE SITES

DESCRIPTIVE NOTE: 78-88P.

ABSTRACT: DESCRIBED ARE STATE ROLES AND STATE RESPONSES FOR SITING HAZARDOUS WASTE FACILITIES.

AVAILABILITY: FORUM; V2 N3

IRIS ACCESSION NUMBER: EW014982

PUBLICATION DATE: FALL 87

TITLE: PUBLIC OPINION AND HAZARDOUS WASTE.

PERSONAL AUTHOR: LYONS, WILLIAM; AND OTHERS

DESCRIPTOR: *ATTITUDES; *HAZARDOUS WASTES; *FACILITIES; *POLICIES; *TENNESSEE; *SURVEYS; *WASTE DISPOSAL; *WASTE SITES

DESCRIPTIVE NOTE: 89-97P.

ABSTRACT: DESCRIBED IS A SURVEY OF A REPRESENTATIVE SAMPLE OF TENNESSEE HOUSEHOLDS TO DETERMINE THEIR VIEWS ON HAZARDOUS WASTE SITING. REACTIONS TO WASTE SITES, LOCATIONS OF WASTE SITES, AND PROCEDURES FOR SELECTING WASTE SITES ARE REPORTED.

AVAILABILITY: FORUM; V2 N3

IRIS ACCESSION NUMBER: EW014983

PUBLICATION DATE: FALL 87

TITLE: FROM FACILITY SITING TO WASTE REDUCTION.

PERSONAL AUTHOR: HIRSCHHORN, JOEL S.; OLDENBURG, KIRSTEN U.

DESCRIPTOR: *ATTITUDES; *BENEFITS; *ECONOMICS; *HAZARDOUS WASTES; *MANAGEMENT; *PUBLIC HEALTH; *POLICIES; *RESOURCE RECOVERY; *WASTE SITES; *WASTE REDUCTION; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 98-104P.

ABSTRACT: THIS ARTICLE STRESSES THE NEED FOR HAZARDOUS WASTE REDUCTION AS A MAJOR APPROACH TO WASTE MANAGEMENT. STUDIES INDICATE THAT A SUBSTANTIAL AMOUNT OF REDUCTION IS POSSIBLE, BUT THAT MANY INDUSTRIES HAVE NOT PURSUED WASTE REDUCTION AS A PRACTICAL, NEAR-TERM OPTION. AMONG THE BENEFITS OF WASTE REDUCTION ARE COSTS OF SITES, PUBLIC HEALTH, RESOURCE RECOVERY, AND INCREASED PUBLIC CONFIDENCE.

AVAILABILITY: FORUM; V2 N3

IRIS ACCESSION NUMBER: EW014986

PUBLICATION DATE: 87

TITLE: SHINING WATERS, SILENT THREAT: TOXIC SUBSTANCES IN THE GREAT LAKES.

DESCRIPTOR: *CONTAMINATION; *AUDIOVISUAL AIDS; *GREAT LAKES; *INSTRUCTIONAL MATERIALS; *LAKES; *RECOMMENDATIONS; *TOXIC SUBSTANCES; *WATER POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 15MIN SLIDE/TAPEP. RENTAL - $15.00, PURCHASE - $100.00

ABSTRACT: THIS PROGRAM DISCUSSES THE CAUSES AND CONSEQUENCES OF TOXIC CONTAMINATION IN THE GREAT LAKES AND RECOMMENDS POSSIBLE SOLUTIONS.

AVAILABILITY: SIERRA CLUB MIDWEST OFFICE, 214 N. HENRY ST., SUITE 203, MADISON, WI 53703

IRIS ACCESSION NUMBER: EW014987

PUBLICATION DATE: 87

TITLE: SETTING UP AN OFFICE RECYCLING PROGRAM: A HOW-TO-MANUAL FOR BUSINESSES, ORGANIZATIONS AND INSTITUTIONS.

PERSONAL AUTHOR: OUTERBRIDGE, THOMAS; AND OTHERS

DESCRIPTOR: *CONSERVATION; *ECONOMICS; *MANAGEMENT; *PAPER; *PLANNING; *RECYCLING; *RESOURCE RECOVERY; *WASTE REDUCTION

DESCRIPTIVE NOTE: 12P. $6.00 BOOKLET

ABSTRACT: THIS PUBLICATION IS A HOW-TO MANUAL DEVOTED MOSTLY TO PAPER RECYCLING. THE PROGRAM DESCRIBED IN THE MANUAL CAN BE ADAPTED TO OTHER MATERIALS. OUTLINED ARE SEVERAL STEPS THAT SHOULD BE TAKEN IN THE PLANNING STAGES AND SUGGESTIONS FOR OPERATING THE PROGRAM.

AVAILABILITY: COMMUNITY ENVIRONMENTAL COUNCIL, 930 MIRAMONTE DR., SANTA BARBARA, CA 93109

IRIS ACCESSION NUMBER: EW014988

PUBLICATION DATE: 86

TITLE: GUIDELINES FOR ESTABLISHING POLICIES AND STRATEGIES FOR HAZARDOUS WASTE MANAGEMENT IN ASIA AND THE PACIFIC.

DESCRIPTOR: *GUIDELINES; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; LEGISLATION; *MANAGEMENT; NATIONAL STRATEGIES; *POLICIES; WASTE DISPOSAL; WASTE REDUCTION; *WORLD PROBLEMS; WASTE MANAGEMENT

DESCRIPTIVE NOTE: 41P.

ABSTRACT: THESE GUIDELINES ARE A RESULT OF DISCUSSIONS AND DELIBERATIONS ARISING FROM A WORKSHOP HELD IN SINGAPORE IN 1986. THE GUIDELINES PRESENT A CHECKLIST OF OPTIONS FOR NATIONAL STRATEGIES FOR WASTE MANAGEMENT THAT HAVE BEEN PROVEN USEFUL IN VARIOUS COUNTRIES. IT ALSO PRESENTS A SERIES OF POLICY QUESTIONS THAT NEED TO BE ADDRESSED BEFORE THE APPROPRIATE OPTIONS CAN BE SELECTED. APPROPRIATE OPTIONS CAN BE SELECTED FROM THE GUIDELINES TO SUIT THE NEEDS OF EACH COUNTRY. SEE EW 14989 FOR THE FINAL REPORT OF THE CONFERENCE.

AVAILABILITY: GUENTER THARUN, HEAD, CDG SOUTH EAST ASIA PROGRAMME OFFICE, ASIAN INSTITUTE OF OF TECHNOLOGY, BANGKOK, THAILAND

IRIS ACCESSION NUMBER: EW014989

PUBLICATION DATE: 86

TITLE: FINAL REPORT ON THE ASEAN-UNEP-CDG WORKSHOP ON POLICIES AND STRATEGIES FOR MANAGING HAZARDOUS WASTES IN ASIA AND THE PACIFIC.

PERSONAL AUTHOR: THARUN, GUENTER

DESCRIPTOR: *ASIA; *FINAL REPORTS; *GUIDELINES; *CONFERENCE PROCEEDINGS; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; LEGISLATION; *MANAGEMENT; *NATIONAL STRATEGIES; *POLICIES; WASTE DISPOSAL; WASTE REDUCTION; *WORLD PROBLEMS; *WASTE MANAGEMENT; *SOUTH PACIFIC

DESCRIPTIVE NOTE: 81P.

ABSTRACT: THIS IS THE FINAL REPORT OF A WORKSHOP HELD IN SINGAPORE IN 1986 CONCERNED WITH POLICIES AND STRATEGIES FOR MANAGING HAZARDOUS WASTES IN ASIA AND THE PACIFIC. INCLUDED IN THE DOCUMENT ARE: (1) SCOPE AND CONTENTS OF THE DISCUSSIONS; (2) PARTICIPANTS; (3) RESOURCE PERSONS; (4) RESULTS; (5) CONCLUSIONS; AND (6) GUIDELINES FOR ESTABLISHING POLICIES AND STANDARDS. SEE EW 14988 FOR A RELATED DOCUMENT; PARTS OF EW 14989 ARE SIMILAR TO EW 14988.

AVAILABILITY: GUENTER THARUN, HEAD, CDG SOUTH EAST ASIA PROGRAMME OFFICE, ASIAN INSTITUTE OF TECHNOLOGY, BANGKOK, THAILAND.

IRIS ACCESSION NUMBER: EW014990

PUBLICATION DATE: 83

TITLE: ENVIRONMENTAL MANAGEMENT FOR DEVELOPING COUNTRIES. VOLUME 1. REVIEW OF TECHNICAL SOLUTIONS.

PERSONAL AUTHOR: THARUN, GUNTER; AND OTHERS

DESCRIPTOR: *RESOURCE RECOVERY; *DEVELOPING COUNTRIES; *ENVIRONMENT; *MANAGEMENT; *OPERATIONS (WASTEWATER); *OPERATIONS (SOLID WASTES); *SOLID WASTES; *WATER POLLUTION CONTROL; *WATER QUALITY; *SOLID WASTE TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 460P.

ABSTRACT: THIS IS VOLUME I IN A THREE VOLUME SERIES ON ENVIRONMENTAL MANAGEMENT FOR DEVELOPING COUNTRIES. THIS PUBLICATION IS BASED ON PAPERS PRESENTED AT SEMINARS AT THE ASIAN INSTITUTE OF TECHNOLOGY. VOLUME I IS CONCERNED WITH OPTIONS FOR CONTROL (BOTH TECHNICAL AND MANAGEMENT) FOR SOLID WASTES AND WATER POLLUTION. SEE EW 14991 AND EW 14992 FOR RELATED DOCUMENTS.

AVAILABILITY: P.S. SERVICE CENTER, 120/19 (26) SOI PRAMOTE 3, MAHESAK ROAD BANGRAK, BANGKOK, THAILAND

IRIS ACCESSION NUMBER: EW014991

PUBLICATION DATE: 83

TITLE: ENVIRONMENTAL MANAGEMENT FOR DEVELOPING COUNTRIES. VOLUME 2. WASTE AND WATER POLLUTION CONTROL EVALUATION & DECISION MAKING.

PERSONAL AUTHOR: THARUN, GUNTER; AND OTHERS

DESCRIPTOR: *DECISION MAKING; *DEVELOPING COUNTRIES; *CASE STUDIES; *ENVIRONMENT; *ECONOMICS; *MANAGEMENT; *PLANNING; *SOLID WASTES; *WATER POLLUTION CONTROL; *WASTEWATER; *WATER QUALITY

DESCRIPTIVE NOTE: 399P.

ABSTRACT: THIS IS VOLUME II IN A THREE VOLUME SERIES ON ENVIRONMENTAL MANAGEMENT FOR DEVELOPING COUNTRIES. THIS PUBLICATION IS BASED ON PAPERS PRESENTED AT SEMINARS AT THE ASIAN INSTITUTE OF TECHNOLOGY. VOLUME II EXAMINES MANAGEMENT ECONOMICS, DECISION MAKING, AND CASE STUDIES RELATED TO WATER POLLUTION CONTROL AND SOLID WASTE MANAGEMENT. SEE EW 14990 AND EW 14992 FOR RELATED DOCUMENTS.

AVAILABILITY: P.S. SERVICE CENTER, 120/19 (26) SOI PRAMOTE 3, MAHESAK ROAD BANGRAK, BANGKOK, THAILAND

IRIS ACCESSION NUMBER: EW014992

PUBLICATION DATE: 83

TITLE: ENVIRONMENTAL MANAGEMENT FOR DEVELOPING COUNTRIES. VOLUME 3. ENVIRONMENTAL ASSESSMENT AND MANAGEMENT.

PERSONAL AUTHOR: THARUN, GUNTER; AND OTHERS

DESCRIPTOR: *ENVIRONMENTAL ASSESSMENT; *DEVELOPING COUNTRIES; *CASE STUDIES; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *MANAGEMENT; *PLANNING; *POLLUTION CONTROL; *AIR POLLUTION CONTROL; *WATER POLLUTION CONTROL; *WATER QUALITY; *SOLID WASTES

DESCRIPTIVE NOTE: 276P.

ABSTRACT: THIS IS VOLUME III IN A THREE VOLUME SERIES ON ENVIRONMENTAL MANAGEMENT FOR DEVELOPING COUNTRIES. THIS PUBLICATION IS BASED ON PAPERS PRESENTED AT SEMINARS AT THE ASIAN INSTITUTE OF TECHNOLOGY. THIS VOLUME COVERS THE TOPIC OF ENVIRONMENTAL ASSESSMENT AND ITS INTEGRATION INTO THE PLANNING PROCESS. SEE EW 14990 AND EW 14991 FOR RELATED DOCUMENTS.

AVAILABILITY: P.S. SERVICE CENTER, 120/19 (26) SOI PRAMOTE 3, MAHESAK ROAD BANGRAK, BANGKOK, THAILAND

IRIS ACCESSION NUMBER: EW014993

PUBLICATION DATE: 87

TITLE: WASTEWATER TREATMENT POCKET HANDBOOK.

DESCRIPTOR: *EQUIPMENT; *HANDBOOKS; *OPERATIONS (WASTEWATER); *UNIT PROCESSES; *WASTEWATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 348P. $24.95

ABSTRACT: THIS HANDBOOK IS A FAST, READY REFERENCE ON TREATING WASTEWATER. NEARLY ALL TECHNIQUES USED FOR TREATING WASTEWATER ARE DESCRIBED. ALSO INCLUDED ARE DRAWINGS OF EQUIPMENT AND PROCESSES AND TABLES OF DATA. CHAPTERS INCLUDE: (1) GENERAL TREATMENT CONSIDERATIONS; (2) SUSPENDED SOLIDS REMOVAL; (3) FILTRATION EQUIPMENT; (4) OIL AND WATER SEPARATION TECHNIQUES; (5) REMOVAL METHODS FOR INORGANIC NUTRIENTS; (6) BIOLOGICAL PROCESSES; AND (7) REMOVAL OF DISSOLVED ORGANICS AND INORGANICS.

AVAILABILITY: WASTEWATER TREATMENT POCKET HANDBOOK C/O PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW014994

PUBLICATION DATE: 86

TITLE: THE BURIED VALLEY AQUIFER SYSTEMS: RESOURCES AND CONTAMINATION.

PERSONAL AUTHOR: VAN ABS, DANIEL J.

DESCRIPTOR: *AQUIFERS; *CONTAMINATION; *GROUNDWATER; *HYDROLOGY; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 500P. NJ RESIDENTS - $75 + $4 P&H, MEMBERS - 1ST COPY FREE; ADDITIONAL COPIES $50 + $4 P&H, NONMEMBERS - $100 + $4 P&H

ABSTRACT: THIS REPORT PRESENTS EXTENSIVE INFORMATION RELEVANT TO AQUIFER SYSTEMS. INFORMATION PRESENTED INCLUDES THE CONFIGURATION AND STRUCTURE OF THE AQUIFERS, THE AVAILABLE WATER SUPPLIES, THE HISTORIC AND CURRENT USE OF AQUIFERS, AND THE CONTAMINATION OF AQUIFERS.

AVAILABILITY: PASSAIC RIVER COALITION, 246 MADISONVILLE ROAD, BASKING RIDGE, NJ 07920

IRIS ACCESSION NUMBER: EW014995

PUBLICATION DATE: 86

TITLE: APPROACHES AND METHODS OF TRAINING IN ENVIRONMENTAL PLANNING AND MANAGEMENT FOR LOCAL AND REGIONAL DEVELOPMENT.

PERSONAL AUTHOR: THARUN, GUENTER

DESCRIPTOR: *ASIA; *ENVIRONMENTAL MANAGEMENT; *LOCAL DEVELOPMENT; *MANAGEMENT; *PACIFIC REGION; *PLANNING; *REGIONAL DEVELOPMENT; *TRAINING; *ENVIRONMENTAL PLANNING; *DEVELOPING COUNTRIES

DESCRIPTIVE NOTE: 82P.

ABSTRACT: THIS PUBLICATION CONSIDERS THE FOLLOWING TOPICS: (1) MAJOR TRAINING NEEDS TO COPE WITH ENVIRONMENTAL MANAGEMENT PROBLEMS AND ISSUES IN THE DEVELOPING COUNTRIES (OF ASIA AND THE PACIFIC); (2) THE ROLE OF DEVELOPMENT PLANNERS AND ADMINISTRATORS IN ENVIRONMENTAL PLANNING AND MANAGEMENT; (3) THE SCOPE AND CONTENT OF TRAINING FOR

REGIONAL DEVELOPMENT PLANNERS IN ENVIRONMENTAL PLANNING AND MANAGEMENT; AND (4) RELEVANT TRAINING APPROACHES AND METHODS. THESE TOPICS ARE ADDRESSED FROM A TRAINING MANAGER'S PERSPECTIVE WITH THE CONSEQUENCE OF SETTING CERTAIN PRIORITIES. A TRAINING APPROACH BASED ON AND STRUCTURED ALONG INTENSIVE PROJECT CASEWORK (PCW) IS INTRODUCED AND DESCRIBED.

AVAILABILITY: GUENTER THARUN, HEAD, CDG SOUTH EAST ASIA PROGRAMME OFFICE, ASIAN INSTITUTE OF TECHNOLOGY, BANGKOK, THAILAND

IRIS ACCESSION NUMBER: EW014996

PUBLICATION DATE: 87

TITLE: BECOMING AN ENVIRONMENTAL PROFESSIONAL.

PERSONAL AUTHOR: DE ANGELIS, LEE P.

DESCRIPTOR: *CAREERS; *CAREER INFORMATION; *ENVIRONMENT; *ENVIRONMENTAL PROFESSIONALS; *OCCUPATIONS; *OCCUPATIONAL INFORMATION; *RESOURCE MATERIALS

DESCRIPTIVE NOTE: 111P. $10.95 PAPERBACK

ABSTRACT: THIS BOOK IS A DETAILED SUMMARY OF A NOVEMBER 1986 CONFERENCE ON ENVIRONMENTAL CAREERS. SOME 30 ENVIRONMENTAL PROFESSIONALS FROM GOVERNMENT AGENCIES, CORPORATIONS, AND NONPROFIT ORGANIZATIONS DESCRIBE WHAT THEIR JOBS ENTAIL, WHAT THEY BELIEVE WILL BE THE MOST IMPORTANT ENVIRONMENTAL ISSUES IN THE IMMEDIATE FUTURE, AND WHAT ADVICE THEY HAVE FOR STUDENTS HOPING TO PURSUE CAREERS IN ENVIRONMENTAL PROTECTION AND NATURAL RESOURCE MANAGEMENT. RESOURCE MATERIALS ARE INCLUDED.

AVAILABILITY: CEIP FUND, 332 THE ARCADE, CLEVELAND, OH 44114

IRIS ACCESSION NUMBER: EW014997

PUBLICATION DATE: 87

TITLE: "IT CAN'T HAPPEN HERE".

DESCRIPTOR: *AUDIOVISUAL AIDS; *COMPLIANCE; *ENVIRONMENT; *HAZARDOUS MATERIALS; *VIDEOTAPES; *SAFETY; *PLANNING; *WASTE DISPOSAL; *WASTE HANDLING; *TOXIC SUBSTANCES; *REGULATIONS

DESCRIPTIVE NOTE: 30MIN VIDEO CASSP. $35.00 - VHS, BETA 3/4"

ABSTRACT: THIS VIDEO PRESENTS A STORY BASED ON ACTUAL EVENTS. THE STORY FOCUSES ON A COMPANY WHOSE WASTE HANDLING PROBLEMS REACH A CRISIS LEVEL. THE STORY SHOWS WHAT CAN HAPPEN WHEN EMPLOYEES TAKE RISKY SHORT CUTS AROUND LAWS AND RULES GOVERNING WASTE HANDLING, TREATMENT, AND DISPOSAL. THE VIDEO CONCLUDES WITH EIGHT BASIC POINTS THAT ARE ESSENTIAL FOR COMPLIANCE WITH ENVIRONMENTAL AND SAFETY LAWS.

AVAILABILITY: COMMONWEALTH FILMS, INC., 223 COMMONWEALTH AVENUE, BOSTON, MA 02116

IRIS ACCESSION NUMBER: EW014998

PUBLICATION DATE: 87

TITLE: AN INTRODUCTION TO MICHIGAN'S WATER RESOURCES.

DESCRIPTOR: *GROUNDWATER; *MANAGEMENT; *MICHIGAN; *GREAT LAKES; *LAKES; *WATER DISTRIBUTION; *WATER QUALITY; *WATER RESOURCES; *WATER USE; *RESOURCE USE

DESCRIPTIVE NOTE: 66P. PRICE: $4.95

ABSTRACT: THIS PUBLICATION DESCRIBES AND ILLUSTRATES THE WATER RESOURCES OF THE STATE, INCLUDING QUALITY, AVAILABILITY, DISTRIBUTION, USES, AND MANAGEMENT. INCLUDED ARE 16 MAPS, 16 ILLUSTRATIONS AND GRAPHS, AND 19 PHOTOGRAPHS.

AVAILABILITY: INSTITUTE OF WATER RESEARCH, 334 NATURAL RESOURCES BUILDING, MICHIGAN STATE UNIVERSITY, EAST LANSING, MI 48824

IRIS ACCESSION NUMBER: EW014999

PUBLICATION DATE: 87

TITLE: EVALUATION OF THE TWO-ZONE WASTEWATER TREATMENT PROCESS AT NORRISTOWN, PENNSYLVANIA.

PERSONAL AUTHOR: WEECH, STEPHEN R.; AND OTHERS

DESCRIPTOR: *COSTS; *EQUIPMENT; *FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATIONS; *TWO-ZONE PROCESS; *TECHNOLOGY; *WASTEWATER TREATMENT; *LAND USE

DESCRIPTIVE NOTE: 346P. PRICE: $21.76

ABSTRACT: ECONOMIC AND PRACTICAL CONSIDERATIONS, SUCH AS LIMITED LAND AREA FOR SITING NEW OR UPGRADED TREATMENT FACILITIES, COMPEL TODAY'S DESIGNERS TO INVESTIGATE ALTERNATIVES TO CONVENTIONAL STRATEGIES FOR WASTEWATER TREATMENT SYSTEMS. ONE SUCH ALTERNATIVE IS THE TWO-ZONE PROCESS AS DEVELOPED BY CANADIAN LIQUID AIR LTD. THE TWO-ZONE PROCESS IS A NOVEL ACTIVATED SLUDGE PROCESS WHICH COMBINES THE AEROBIC BIOLOGICAL REACTOR AND THE CLARIFIER IN ONE TANK FOR RETROFIT INTO EXISTING PLANT TANKAGE TO INCREASE CAPACITY. A KEY FEATURE OF THE TWO-ZONE PROCESS, WHICH ALLOWS INTEGRATION OF THE REACTOR AND CLARIFIER INTO A SINGLE TANK, IS THE OXYGENATION OF THE RECYCLED BIOMASS WITH PURE OXYGEN IN AN EXTERNAL TRANSFER DEVICE. A 1,893 CUBIC METER PER MINUTE DEMONSTRATION OF THE TWO-ZONE PROCESS WAS CONDUCTED AT THE NORRISTOWN BOROUGH MUNICIPAL WASTEWATER TREATMENT PLANT IN PENNSYLVANIA. OBJECTIVES OF THE DEMONSTRATION WERE TO GAIN AN INSIGHT INTO THE FUNCTIONAL REQUIREMENTS OF THE PROCESS AND TO TEST THE SYSTEM PERFORMANCE AT HIGHER LOADINGS THAN ATTEMPTED IN PREVIOUS STUDIES. A BASIC CONCLUSION OF THE DEMONSTRATION WAS THAT

THE TWO-ZONE PROCESS FUNCTIONED WELL BY ACHIEVING UP TC 92-PERCENT BOD5 REMOVALS AT RELATIVELY LOW SLUDGE AGES (1 TO 3 DAYS) WITH AVERAGE OXYGEN CONSUMPTION OF ABOUT 0.5 KG PER KG OF BOD5 REMOVED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015001

PUBLICATION DATE: 87

TITLE: ELECTROSTATIC PRECIPITATOR EFFICIENCY ON A MULTIPLE HEARTH INCINERATOR BURNING SEWAGE SLUDGE.

PERSONAL AUTHOR: ADAMS, R.C.; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; *ELECTROSTATIC PRECIPITATORS; *INCINERATORS; ENVIRONMENT; *EQUIPMENT; *MULTIPLE HEARTH INCINERATORS; METALS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATIONS; *SLUDGE; WASTEWATER TREATMENT; *WASTE DISPOSAL

DESCRIPTIVE NOTE: 170P. PRICE: $11.20

ABSTRACT: A PILOT SCALE ELECTROSTATIC PRECIPITATOR (ESP) WAS EVALUATED FOR ITS REMOVAL PERFORMANCE FOR 23 METALS AND FOR SULFUR CONTAINING PARTICLES WHEN FITTED TO A MULTIPLE HEARTH INCINERATOR BURNING SEWAGE SLUDGE. THE SMALL SCALE ESP WAS INSTALLED TO TAKE A SLIPSTREAM OF ABOUT THREE PERCENT OF THE TOTAL INCINERATOR EMISSIONS. PARTICLE SIZE FRACTIONS WERE COLLECTED FROM THE GAS STREAMS ENTERING AND LEAVING THE ESP. TOTAL CONCENTRATIONS OF EACH ELEMENT IN THE CONTROLLED EMISSION STREAM WAS DETERMINED AS WELL AS THE PROPORTIONATE CONCENTRATIONS OF SPECIES IN THE SOLID AND VOLATILE STATES. CONCENTRATIONS OF EACH METAL IN THE EMISSION STREAM WAS COMPARED WITH THE CONCENTRATIONS IN A SLUDGE RESIDUE. TO OBTAIN COMPARISONS OF ESP PERFORMANCE WITH A MORE TYPICAL EMISSION CONTROL DEVICE, THE PERFORMANCE OF THE INCINERATOR'S FULL SCALE WET SCRUBBER WAS ALSO EVALUATED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015002

PUBLICATION DATE: 86

TITLE: DESTRUCTION AND STABILIZATION OF SLUDGE BY MULTIPLE STAGE DIGESTION AND THERMAL TREATMENT.

PERSONAL AUTHOR: WU, YEUN C.

DESCRIPTOR: *DIGESTION; *ANAEROBIC SLUDGE DIGESTION; *EQUIPMENT; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SLUDGE DESTRUCTION; *SLUDGE STABILIZATION; *THERMAL TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 129P. PRICE: $8.74

ABSTRACT: THIS STUDY COMPARED CONVENTIONAL, ANAEROBIC SLUDGE DIGESTION AND THREE STAGE, ANAEROBIC SLUDGE DIGESTION. THE RESULTS OF THIS STUDY INDICATED THAT MULTIPLE STAGE DIGESTION OUTPERFORMED CONVENTIONAL SINGLE STAGE DIGESTION IN TERMS OF COD AND VS DESTRUCTION, AND METHANE PRODUCTION. THE FIRST TWO STAGES OF THE MULTIPLE STAGE SYSTEM, BY THEMSELVES, ACHIEVED A GREATER DEGREE OF SLUDGE STABILIZATION AND DESTRUCTION, AND METHANE PRODUCTION THAN THE CONVENTIONAL SYSTEM. THE EFFLUENT SLUDGES FROM BOTH PROCESSES WERE FURTHER TREATED BY WET AIR OXIDATION (WAO). THE WAO PROCESS ACHIEVED 86% VOLATILE SOLIDS REDUCTION AT 250 DEGREES CELSIUS. THE MAJOR PRODUCTS OF THE WAO TREATMENT WERE AMMONIA, ACETIC ACID, ORGANIC NITROGEN COMPOUNDS, CARBON DIOXIDE, AND WATER.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015003

PUBLICATION DATE: 87

TITLE: DEVELOPMENTS AT THIRTEENTH INTERNATIONAL CONFERENCE ON WATER POLLUTION RESEARCH. RIO DE JANEIRO, BRAZIL. AUGUST 17-21, 1986.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; EQUIPMENT; FACILITIES; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *RESEARCH NEEDS; *RESEARCH REPORTS; *TECHNOLOGY; WORLD PROBLEMS; UNIT PROCESSES; *WASTEWATER TREATMENT; *WATER QUALITY; *WATER RESOURCES; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 379P. PRICE: $23.74

ABSTRACT: THE PURPOSE OF THIS REPORT IS TO PROVIDE A MECHANISM TO IDENTIFY WATER RESEARCH FROM AROUND THE WORLD. THE REPORT INCLUDES A REVIEW OF THE PRESENTATIONS AND INVITED DISCUSSION, POSTER SESSIONS, AND PRE- AND POST-CONFERENCE SEMINARS GIVEN AT THE 13TH INTERNATIONAL CONFERENCE ON WATER POLLUTION RESEARCH, AS WELL AS INTERPRETIVE ANALYSES OF INFORMAL DEVELOPMENTS ASSOCIATED WITH THE CONFERENCE THAT WERE JUDGED TO BE OF PARTICULAR RELEVANCE TO WATER QUALITY CONTROL ACTIVITIES IN THE U.S.A. NEARLY ALL ASPECTS OF WASTEWATER TREATMENT ARE CONSIDERED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015004

PUBLICATION DATE: 87

TITLE: CRITICAL LITERATURE REVIEW AND RESEARCH NEEDED ON ACTIVATED SLUDGE SECONDARY CLARIFIERS.

PERSONAL AUTHOR: TEKIPPE, RUDY J.

DESCRIPTOR: *ACTIVATED SLUDGE; *CLARIFIERS; *DESIGN; *FACILITIES; *EQUIPMENT; *OPERATIONS (WASTEWATER); *LITERATURE REVIEWS; *SECONDARY CLARIFIERS; *RESEARCH

REVIEWS; *RESEARCH REPORTS; *WASTEWATER TREATMENT; *PERFORMANCE EVALUATION

DESCRIPTIVE NOTE: 206P. PRICE: $13.36

ABSTRACT: THIS REPORT PRESENTS A CRITICAL REVIEW OF THE LITERATURE AND PROCEEDINGS OF A SYMPOSIUM REGARDING THE DESIGN AND OPERATION OF ACTIVATED SLUDGE SECONDARY CLARIFIERS. THE REPORT IS ORGANIZED INTO FIVE SECTIONS. THE FIRST SECTION PRESENTS THE BACKGROUND AND FORMAT OF THE SYMPOSIUM; IT ALSO EXPLAINS THE ORGANIZATION AND PREPARATION OF THE REPORT TEXT. SECTIONS 2 AND 3 PRESENT THE CONCLUSIONS AND RECOMMENDATIONS. SECTION 4 IS THE COMPLETE TEXT OF THE LITERATURE REVIEW. THE REFERENCES USED FOR THE REPORT ARE LISTED IN SECTION 5. THE REPORT INCLUDES LITERATURE TO SEPT., 1986.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OHIO 43212

IRIS ACCESSION NUMBER: EW015005

PUBLICATION DATE: 87

TITLE: MULTI-MATERIAL RECYCLING MANUAL (SECOND EDITION).

DESCRIPTOR: *DIRECTORIES; *MARKETING; *PROCESSING; *RECYCLING; *SOLID WASTES; *TRADE ASSOCIATIONS; *STATE RECYCLING PROGRAMS; *EQUIPMENT MANUFACTURERS; *WASTE REDUCTION; *RESOURCE RECOVERY

DESCRIPTIVE NOTE: PRICE: $35.00

ABSTRACT: THIS MANUAL OFFERS CONSIDERATIONS FOR LOCATING AND DEVELOPING MARKETS FOR ALUMINUM, PAPER, GLASS, PLASTICS, IRON AND STEEL, SCRAP TIRES, USED OIL AND COMPOST. APPENDICES INCLUDE GUIDELINES FOR SITING AND ORGANIZING A MULTI-MATERIAL RECYCLING CENTER, A GLOSSARY OF RECYCLING TERMS, A COMPREHENSIVE DIRECTORY OF RECYCLING EQUIPMENT MANUFACTURERS, AND LISTINGS OF STATE RECYCLING ASSOCIATIONS, RECYCLING TRADE ASSOCIATIONS, STATE RECYCLING OFFICIALS AND STATE RECYCLING PROGRAMS.

AVAILABILITY: KEEP AMERICA BEAUTIFUL, INC., 9 WEST BROAD STREET, STAMFORD, CONN. 06902

IRIS ACCESSION NUMBER: EW015007

PUBLICATION DATE: 85

TITLE: ODOR AND CORROSION CONTROL IN SANITARY SEWERAGE SYSTEMS AND TREATMENT PLANTS. DESIGN MANUAL.

DESCRIPTOR: *CORROSION; *CORROSION CONTROL; *EQUIPMENT; *FACILITIES; *DESIGN MANUALS; *MANUALS; *ODOR CONTROL; *OPERATIONS (WASTEWATER); *ODORS; *TECHNOLOGY; *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 142P. FREE OF CHARGE AS LONG AS SUPPLIES LAST.

ABSTRACT: THIS MANUAL IS INTENDED TO PROVIDE A COMPREHENSIVE DESIGN MANUAL THAT BRINGS TOGETHER INFORMATION IN A FORM CONVENIENT FOR THOSE DESIGNING NEW SYSTEMS OR APPLYING ODOR AND CORROSION CONTROL PROCEDURES IN EXISTING SYSTEMS. SECTIONS ARE INCLUDED ON: (1) INTRODUCTION; (2) THEORY, PREDICTION, AND MEASUREMENT OF ODOR AND CORROSION; (3) ODOR AND CORROSION CONTROL IN EXISTING WASTEWATER COLLECTION SYSTEMS; (4) ODOR AND CORROSION CONTROL IN EXISTING WASTEWATER TREATMENT PLANTS; (5) DESIGNING TO AVOID ODOR AND CORROSION IN NEW WASTEWATER COLLECTION SYSTEMS; AND (6) DESIGNING TO AVOID ODOR AND CORROSION IN NEW WASTEWATER TREATMENT FACILITIES.

AVAILABILITY: CERI, TECHNOLOGY TRANSFER, U.S. ENVIRONMENTAL PROTECTION AGENCY, P.O. BOX 12505, CINCINNATI, OH 45212

IRIS ACCESSION NUMBER: EW015008

PUBLICATION DATE: 86

TITLE: MUNICIPAL WASTEWATER DISINFECTION. DESIGN MANUAL.

DESCRIPTOR: *DISINFECTION; *DESIGN MANUALS; *EQUIPMENT; *FACILITIES; *MANUALS; *HALOGENS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TECHNOLOGY; *WASTEWATER TREATMENT; *OZONE; *ULTRAVIOLET RADIATION

DESCRIPTIVE NOTE: 261P. FREE OF CHARGE AS LONG AS SUPPLIES LAST.

ABSTRACT: THE PURPOSE OF THIS MANUAL IS TO PRESENT THROUGH DESIGN GUIDELINES ON OZONE ULTRAVIOLET LIGHT, CHLORINATION, AND CHLORINATION/DECHLORINATION FACILITIES. EACH OF THE CHAPTERS PRESENTS A BRIEF HISTORICAL BACKGROUND OF THE DEVELOPMENT AND USE OF THE PARTICULAR DISINFECTANT OF INTEREST. THE CHAPTERS THEN REVIEW PROCESS CHEMISTRY AND DISINFECTION KINETICS. ANALYTICAL MEASUREMENT METHODOLOGY IS DISCUSSED. THEN THE ACTUAL PROCESS DESIGN VARIABLES, CONSIDERATIONS, AND EXPERIENCE ARE PRESENTED WITH CASE HISTORIES, OPERATION AND MAINTENANCE, AND SAFETY CONSIDERATIONS.

AVAILABILITY: CERI, TECHNOLOGY TRANSFER, U.S. ENVIRONMENTAL PROTECTION AGENCY, P.O. BOX 12505, CINCINNATI, OH 45212

IRIS ACCESSION NUMBER: EW015009

PUBLICATION DATE: 87

TITLE: PHOSPHORUS REMOVAL. DESIGN MANUAL.

DESCRIPTOR: *BIOLOGICAL PROCESSES; *CHEMICAL PROCESSES; *DESIGN MANUALS; *EQUIPMENT; *FACILITIES; *MANUALS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *PHOSPHORUS; *PHOSPHORUS REMOVAL; *TECHNOLOGY; *SLUDGE HANDLING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 126P. FREE OF CHARGE AS LONG AS SUPPLIES LAST.

ABSTRACT: THIS MANUAL IS INTENDED TO SUMMARIZE PROCESS DESIGN INFORMATION FOR THE BEST DEVELOPED PHOSPHORUS REMOVAL METHODS THAT ARE AVAILABLE. THE MANUAL DISCUSSES SEVERAL PROVEN PHOSPHORUS REMOVAL METHODS, INCLUDING PHOSPHORUS REMOVAL OBTAINABLE THROUGH BIOLOGICAL ACTIVITY AS WELL AS CHEMICAL PRECIPITATION TECHNIQUES. BIOLOGICAL PHOSPHORUS REMOVAL WAS NOT INCLUDED IN THE PREVIOUS VERSION OF THIS MANUAL AND REPRESENTS A MAJOR ADDITION. APPROPRIATE CHEMISTRY FOR PHOSPHORUS REMOVAL BY CHEMICAL ADDITION IS PRESENTED WHERE APPROPRIATE FOR ILLUSTRATIVE PURPOSES. SECTIONS OF THE MANUAL ARE: (1) INTRODUCTION; (2) SELECTING A PHOSPHORUS REMOVAL STRATEGY; (3) PHOSPHORUS REMOVAL BY BIOLOGICAL PROCESSES; (4) PHOSPHORUS REMOVAL BY CHEMICAL ADDITIONS; AND (5) SLUDGE HANDLING.

AVAILABILITY: CERI, TECHNOLOGY TRANSFER, U.S. ENVIRONMENTAL PROTECTION AGENCY, P.O. BOX 12505, CINCINNATI, OH 45212

IRIS ACCESSION NUMBER: EW015010

PUBLICATION DATE: 87

TITLE: PROCEDURES OF INDUSTRIAL WATER TREATMENT.

PERSONAL AUTHOR: TANIS, J.N.

DESCRIPTOR: ANALYTICAL TECHNIQUES; BOILERS; COOLING WATER; FIELD TESTS; *INDUSTRIAL WATER TREATMENT; ION EXCHANGE RESINS; *OPERATIONS (WATER); *WATER TREATMENT; REVERSE OSMOSIS; SAMPLING TECHNIQUES

DESCRIPTIVE NOTE: $48.00

ABSTRACT: THIS BOOK PROVIDES PROCEDURES, CALCULATIONS, AND TEST METHODS FOR INDUSTRIAL WATER TREATMENT. SECTIONS INCLUDED ARE: (1) GENERAL CONCEPTS; (2) BOILER WATER AND RELATED PROCEDURES; (3) FIELD ANALYTICAL TEST PROCEDURES; AND (4) MISCELLANEOUS: SAMPLING AND EXAMINING METAL SPECIMENS, DISTINGUISHING BETWEEN VARIOUS MEMBRANES, QUALIFYING WATER FOR REVERSE OSMOSIS, TESTING AND INTERPRETING ION EXCHANGE RESINS, AND PERFORMING POLYMER FIELD TESTS. CASE STUDIES ARE ALSO INCLUDED.

AVAILABILITY: LTAN INC., P.O. BOX 672, RIDGEFIELD, CT 06877

IRIS ACCESSION NUMBER: EW015011

PUBLICATION DATE: 86

TITLE: COMMUNITY RIGHT-TO-KNOW MANUAL. THE GUIDE TO SARA TITLE III.

DESCRIPTOR: *CHEMICALS; EMERGENCY NOTIFICATION; EMERGENCY PLANNING; *INFORMATION DISCLOSURE; COMPLIANCE; ENFORCEMENT; *GUIDES; *REPORTING; *SARA TITLE III; STATE PROGRAMS; *RIGHT-TO-KNOW; *SUPERFUND

DESCRIPTIVE NOTE: ANNUAL RATE - $347.00

ABSTRACT: THIS IS A COMPLETE GUIDE FOR COMPLYING WITH SARA TITLE III. THE SUBSCRIPTION INCLUDES THE MANUAL AND SIX UPDATES FOR A PERIOD OF ONE YEAR. INFORMATION INCLUDES: (1) EMERGENCY PLANNING; (2) EMERGENCY NOTIFICATION; (3) ROUTINE REPORTING; (4) INFORMATION DISCLOSURE AND RISK REQUIREMENTS; (5) ENFORCEMENT AND IMPLEMENTATION; AND (6) STATE PROGRAMS.

AVAILABILITY: THOMPSON PUBLISHING GROUP, 1725 K STREET, N.W., SUITE 200, WASHINGTON, D.C. 20006

IRIS ACCESSION NUMBER: EW015014

PUBLICATION DATE: 86

TITLE: UPGRADED DIAGNOSTIC OPERATIONAL MODELING PROGRAMS FOR MUNICIPAL WASTEWATER TREATMENT PLANTS - IBM VERSION.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SIMULATIONS; *DIAGNOSTIC EVALUATION; *DESIGN; *FACILITIES; *USER MANUALS; *EQUIPMENT; *MODELS; *OPERATIONS (WASTEWATER); *WASTEWATER TREATMENT; *PERFORMANCE EVALUATION; *TROUBLESHOOTING

DESCRIPTIVE NOTE: 124P. PRICE: $8.44

ABSTRACT: THIS USER'S MANUAL DESCRIBES THE OPERATION AND USE OF THE UPDATED DIAGNOSTIC PROGRAMS. THE PROGRAMS CAN BE USED TO EVALUATE TREATMENT PLANT DESIGN LIMITATIONS AND OPERATIONAL DEFICIENCIES. SECTIONS IN THE MANUAL INCLUDE: (1) INTRODUCTION; (2) USING THE COMPUTER; (3) RUNNING THE PROGRAMS; (4) APPLICATION AND THEORY; (5) DIGESTER AND ACTIVATED SLUDGE ANALYTICAL AND TROUBLESHOOTING PROGRAM; AND (6) APPENDICES. PROGRAMS FOR 11 TYPES OF MUNICIPAL WASTEWATER TREATMENT PLANTS ARE AVAILABLE. EACH PROGRAM ALLOWS FOR THE OPTION OF SELECTING EITHER ANAEROBIC OR AEROBIC SLUDGE DIGESTION ANALYSIS. THE PROGRAMS HAVE BEEN PREPARED FOR USE WITH THE IBM PC/XT, COMPAQ, AT&T OR IBM COMPATIBLE PC MICROCOMPUTERS. SEVEN DISKETTES ARE AVAILABLE FOR RUNNING THE 11 DIAGNOSTIC PROGRAMS. SOME OF THE DISKETTES ARE USED FOR MODELING ONLY ONE TYPE OF WASTEWATER TREATMENT PLANT. OTHERS ARE USED TO PERFORM DIAGNOSTIC RUNS ON VARIOUS TYPES OF WASTEWATER TREATMENT PLANTS. (SEE EW 015 015 FOR A DESCRIPTION OF THE DISKETTES).

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015015

PUBLICATION DATE: 86

TITLE: UPGRADED DIAGNOSTIC OPERATIONAL MODELING PROGRAMS FOR MUNICIPAL WASTEWATER TREATMENT PLANTS - IBM VERSION - DISKETTES.

DESCRIPTOR: *COMPUTER SOFTWARE; *COMPUTER APPLICATIONS; *COMPUTER DISKETTES; *DIAGNOSTIC EVALUATION; *DESIGN; *FACILITIES; *EQUIPMENT; *MODELS; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *TROUBLESHOOTING; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 8 DISKETTESP. PRICE: $50.00

ABSTRACT: THESE ARE THE DISKETTES TO USE WITH THE USER'S MANUAL (EW 015 014). INCLUDED ARE SEVEN DISKETTES (1) ROUGHING FILTER, (2) ACTIVATED SLUDGE WITHOUT PRIMARY CLARIFIERS, (3) CONTACT STABILIZATION, (4) TRICKLING FILTER, (5) RBC AND PRIMARY TREATMENT, (6) ACTIVATED SLUDGE WITH PRIMARY CLARIFIERS, AND (7) ACTIVATED BIOLOGICAL FILTER (ABF). PROGRAMS ARE INCLUDED FOR 11 TYPES OF MUNICIPAL WASTEWATER TREATMENT PLANTS. EACH PROGRAM ALLOWS FOR THE OPTION OF SELECTING EITHER ANAEROBIC OR AEROBIC SLUDGE DIGESTION ANALYSIS. THE PROGRAMS HAVE BEEN PREPARED FOR USE WITH IBM MICROCOMPUTERS. SOME OF THE DISKETTES ARE USED FOR MODELING ONLY ONE TYPE OF WASTEWATER TREATMENT, WHILE OTHERS ARE USED TO PERFORM DIAGNOSTIC RUNS ON VARIOUS TYPES OF WASTEWATER TREATMENT PLANTS. THE DISKETTES ARE AVAILABLE AS A SET; THEY ARE NOT AVAILABLE SEPARATELY.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015016

PUBLICATION DATE: JULY 87

TITLE: IRIS: A COMPILATION OF ABSTRACTS RELATED TO ENVIRONMENTAL QUALITY RESOURCE MATERIALS WITH EMPHASIS ON WATER QUALITY. SUPPLEMENT#30.

DESCRIPTOR: *AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; HAZARDOUS MATERIALS; INDEXES; INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; POSTSECONDARY EDUCATION; SLUDGE; TECHNOLOGY; WASTE DISPOSAL; *WASTEWATER; WATER; WATER POLLUTION; *WATER QUALITY; *WATER RESOURCES; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 105P. PRICE: $7.30

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS WASTES AND PUBLIC PARTICIPATION. SOURCES OF ABSTRACTED/INDEXED MATERIALS INCLUDE ALL LEVELS OF GOVERNMENT, PRIVATE CONCERNS, AND EDUCATIONAL INSTITUTIONS. TITLE, AUTHOR(S), PUBLICATION DATE, CROSS-REFERENCES, DESCRIPTORS, AND AVAILABILITY ARE PROVIDED FOR EACH ENTRY. PROCEDURES ARE OUTLINED BY WHICH INSTRUCTORS AND CURRICULUM DEVELOPERS IN THE WATER QUALITY CONTROL FIELD CAN LOCATE INSTRUCTIONAL MATERIALS TO MEET VERY GENERAL OR HIGHLY SPECIFIC REQUIREMENTS OF THEIR PROGRAMS. ALSO INCLUDED ARE AN AUTHOR AND SUBJECT INDEX. THIS PUBLICATION SUPPLEMENTS AND DOES NOT REPLACE "WATER QUALITY INSTRUCTIONAL RESOURCES INFORMATION SYSTEM (IRIS): A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES" OR IRIS SUPPLEMENTS 1-29.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015017

PUBLICATION DATE: 87

TITLE: ACID RAIN AND NONATTAINMENT ISSUES.

DESCRIPTOR: *ACID RAIN; *CONGRESSIONAL HEARINGS; *CARBON MONOXIDE; *ENVIRONMENT; *ENVIRONMENTAL IMPACT; *OZONE; *COMPLIANCE; *POLICIES; *USEPA; *POLLUTION CONTROL; *REGULATIONS; *AIR POLLUTION CONTROL; *WATER QUALITY

DESCRIPTIVE NOTE: 98P.

ABSTRACT: THIS PUBLICATION PROVIDES DOCUMENTATION OF HEARINGS ON APRIL 22, 1987 BEFORE THE U.S. SENATE SUBCOMMITTEE ON ENVIRONMENTAL PROTECTION OF THE COMMITTEE ON ENVIRONMENT AND PUBLIC WORKS. PRESENTATIONS BY USEPA PERSONNEL AND SUPPORTING DOCUMENTATION ARE INCLUDED. THE PRESENTATIONS FOCUS ON ACID RAIN, OZONE, AND CARBON MONOXIDE PROBLEMS.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, CONGRESSIONAL SALES OFFICE, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, DC 20402

IRIS ACCESSION NUMBER: EW015018

PUBLICATION DATE: 87

TITLE: HEALTH EFFECTS OF INDOOR AIR POLLUTION.

DESCRIPTOR: *AIR POLLUTION CONTROL; *AIR POLLUTION; *CONGRESSIONAL HEARINGS; *INDOOR AIR POLLUTION; *ENVIRONMENT; *PUBLIC HEALTH; *POLICIES; *POLLUTION CONTROL; *RADON; *ASBESTOS; *TOBACCO SMOKE; *CHEMICALS

DESCRIPTIVE NOTE: 127P.

ABSTRACT: THIS PUBLICATION DOCUMENTS A HEARING ON APRIL 24, 1987 BEFORE THE U.S. SENATE SUBCOMMITTEE ON ENVIRONMENTAL PROTECTION OF THE COMMITTEE ON ENVIRONMENT AND PUBLIC WORKS. THE HEARING IS CONCERNED WITH VARIOUS ASPECTS OF INDOOR AIR POLLUTION, SCIENTIFIC HEALTH THREATS POSED BY THESE CONTAMINANTS, AND POSSIBLE POLICY RESPONSES TO THE PROBLEM. SUPPORTING DOCUMENTATION FROM INDIVIDUALS, AGENCIES, AND ORGANIZATIONS ARE INCLUDED.

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, CONGRESSIONAL SALES OFFICE, U.S. GOVERNMENT PRINTING OFFICE, WASHINGTON, D.C. 20402

IRIS ACCESSION NUMBER: EW015020

PUBLICATION DATE: 87

TITLE: INDUSTRIAL WASTE TREATMENT. A FIELD STUDY TRAINING PROGRAM.

DESCRIPTOR: *HOME STUDY; *INDEPENDENT STUDY; *INDUSTRIAL MATERIALS; *INDUSTRIAL WASTES; *POSTSECONDARY EDUCATION;

MONITORING; MAINTENANCE; *WASTE TREATMENT; *WASTE DISPOSAL; *TRAINING; WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 623P.

ABSTRACT: THIS OPERATIONS MANUAL REPRESENTS A CONTINUATION OF OPERATOR TRAINING MANUALS DEVELOPED FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA), IN RESPONSE TO THE TECHNOLOGICAL ADVANCEMENTS OF WASTEWATER TREATMENT AND THE CHANGING NEEDS OF THE OPERATIONS PROFESSION. IT IS INTENDED TO BE USED AS A HOME-STUDY COURSE MANUAL (USING THE CONCEPTS OF SELF-PACED INSTRUCTION) OR AS A TEXTBOOK FOR COLLEGE AND UNIVERSITY COURSES. IT CONTAINS CHAPTERS ON: (1) THE INDUSTRIAL PLANT OPERATOR; (2) ACTIVATED SLUDGE; (3) PHYSICAL-CHEMICAL TREATMENT; (4) INSTRUMENTATION; (5) INDUSTRIAL WASTE MONITORING; (6) INDUSTRIAL WASTE TREATMENT PROCESSES; AND (7) MAINTENANCE. EACH CHAPTER CONTAINS TEXTUAL INFORMATION, DISCUSSION AND REVIEW QUESTIONS, SUGGESTED ANSWERS, AND AN OBJECTIVE TEST. ALSO INCLUDED IN THE APPENDIX ARE A FINAL EXAMINATION, TIPS ON SOLVING INDUSTRIAL WASTE ARITHMETIC PROBLEMS, A GLOSSARY OF TERMS, AND AN INDEX.

AVAILABILITY: MR. KEN KERRI, CALIFORNIA STATE UNIVERSITY, SACRAMENTO, 6000 J ST., SACRAMENTO, CA 95819-2654

IRIS ACCESSION NUMBER: EW015021

PUBLICATION DATE: 87

TITLE: ADVANCED WASTE TREATMENT. A FIELD STUDY TRAINING PROGRAM.

DESCRIPTOR: ACTIVATED SLUDGE; *HOME STUDY; *INDEPENDENT STUDY; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); NITROGEN REMOVAL; PHOSPHORUS REMOVAL; *POSTSECONDARY EDUCATION; SOLIDS HANDLING; *TRAINING; NITROGEN REMOVAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 561P.

ABSTRACT: THIS OPERATIONS MANUAL REPRESENTS A CONTINUATION OF OPERATOR TRAINING MANUALS DEVELOPED FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (USEPA), IN RESPONSE TO THE TECHNOLOGICAL ADVANCEMENTS OF WASTEWATER TREATMENT AND THE CHANGING NEEDS OF THE OPERATIONS PROFESSION. IT IS INTENDED TO BE USED AS A HOME-STUDY COURSE MANUAL (USING THE CONCEPTS OF SELF-PACED INSTRUCTION) OR AS A TEXTBOOK FOR COLLEGE AND UNIVERSITY COURSES. IT CONTAINS CHAPTERS ON: (1) ODOR CONTROL; (2) ACTIVATED SLUDGE; (3) SOLIDS HANDLING AND DISPOSAL; (4) SOLIDS REMOVAL FROM SECONDARY EFFLUENTS; (5) PHOSPHORUS REMOVAL; (6) NITROGEN REMOVAL; (7) WASTEWATER RECLAMATION; AND (8) INSTRUMENTATION. EACH CHAPTER CONTAINS TEXTUAL INFORMATION, DISCUSSION AND REVIEW QUESTIONS, SUGGESTED ANSWERS, AND AN OBJECTIVE TEST. ALSO INCLUDED ARE A FINAL EXAMINATION, A GLOSSARY OF TERMS, AND AN INDEX.

AVAILABILITY: MR. KEN KERRI, CALIFORNIA STATE UNIVERSITY, SACRAMENTO, 6000 J ST., SACRAMENTO, CA 95819-2654

IRIS ACCESSION NUMBER: EW015022

PUBLICATION DATE: DEC 86

TITLE: ACID RAIN: LC SCIENCE TRACER BULLET.

PERSONAL AUTHOR: HOLLMAN, PAULINE

DESCRIPTOR: *AIR POLLUTION CONTROL; *BIBLIOGRAPHIES; *REFERENCE MATERIALS; *RESEARCH REPORTS; *WATER QUALITY; *WATER POLLUTION; WATER RESOURCES; *ACID RAIN; *ENVIRONMENTAL IMPACT; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 12P. SEE SE 048 603

ABSTRACT: THE TERM "ACID RAIN," ALSO CALLED "ACID PRECIPITATION," GENERALLY REFERS TO ANY PRECIPITATION HAVING A PH VALUE OF LESS THAN 5.6. THIS GUIDE TO THE LITERATURE ON ACID RAIN IN THE COLLECTIONS OF THE LIBRARY OF CONGRESS IS NOT NECESSARILY INTENDED TO BE A COMPREHENSIVE BIBLIOGRAPHY. IT IS DESIGNED TO PROVIDE THE READER WITH A SET OF RESOURCES THAT CAN BE USED TO FOCUS ON THE TOPIC. THE DOCUMENT LISTS THE SUBJECT HEADINGS USED BY THE LIBRARY OF CONGRESS IN CATALOGUING INFORMATION ON ACID RAIN. IT ALSO CONTAINS CITATIONS ON ACID RAIN MATERIALS CATEGORIZED AS: (1) BRIEF INTRODUCTIONS; (2) BASIC TEXTS; (3) ADDITIONAL TITLES; (4) HANDBOOKS AND ENCYCLOPEDIAS; (5) OTHER BIBLIOGRAPHIES; (6) CONFERENCE PROCEEDINGS; (7) GOVERNMENT PUBLICATIONS; (8) ABSTRACTING AND INDEXING SERVICES; (9) JOURNAL ARTICLES; (10) TECHNICAL REPORTS; AND (11) ADDITIONAL SOURCES OF INFORMATION.

AVAILABILITY: LIBRARY OF CONGRESS, 1ST STREET, WASHINGTON, D.C. 20003

IRIS ACCESSION NUMBER: EW015023

PUBLICATION DATE: NOV 86

TITLE: BIOLOGICAL AND HEALTH EFFECTS OF ELECTROMAGNETIC (NONIONIZING) RADIATION: LC SCIENCE TRACER BULLET.

PERSONAL AUTHOR: HALASZ, HISAKO

DESCRIPTOR: *BIBLIOGRAPHIES; *PUBLIC HEALTH; *RADIATION EFFECTS; *POLLUTION; *REFERENCE MATERIALS; *RESEARCH REPORTS; *ELECTROMAGNETIC RADIATION; PHYSICS; *ENVIRONMENT; *ELECTROMAGNETIC POLLUTION; *BIOLOGICAL EFFECTS; *HEALTH EFFECTS

DESCRIPTIVE NOTE: 12P. SEE SE 048 602

ABSTRACT: THE ENVIRONMENT WE LIVE IN TODAY IS FILLED WITH HUMAN-CREATED ELECTROMAGNETIC FIELDS GENERATED BY A VARIETY OF SOURCES, INCLUDING RADIO AND TELEVISION TRANSMITTERS, POWER LINES, AND VISUAL DISPLAY TERMINALS. THE TERM "ELECTROMAGNETIC POLLUTION" IS OFTEN USED TO DESCRIBE THE RECENT PROLIFERATION OF ARTIFICIAL SOURCES OF ELECTROMAGNETIC FIELDS IN OUR ENVIRONMENT. THIS DOCUMENT WAS DEVELOPED TO HELP THE INTERESTED READER LOCATE MATERIALS IN THE COLLECTIONS OF THE LIBRARY OF CONGRESS ON THE BIOLOGICAL AND HEALTH EFFECTS OF ELECTROMAGNETIC FIELDS. IT IS DESIGNED

TO PROVIDE THE READER WITH A SET OF RESOURCES THAT CAN BE USED TO FOCUS ON THE TOPIC. THE DOCUMENT LISTS THE SUBJECT HEADINGS USED BY THE LIBRARY OF CONGRESS IN CATALOGUING INFORMATION ON ELECTROMAGNETIC RADIATION. IT ALSO CONTAINS CITATIONS OF MATERIALS CATEGORIZED AS: (1) BRIEF INTRODUCTIONS; (2) BASIC TEXTS; (3) ADDITIONAL TITLES; (4) HANDBOOKS AND ENCYCLOPEDIAS; (5) OTHER BIBLIOGRAPHIES; (6) CONFERENCE PROCEEDINGS; (7) GOVERNMENT PUBLICATIONS; (8) ABSTRACTING AND INDEXING SERVICES; (9) JOURNAL ARTICLES; (10) TECHNICAL REPORTS; AND (11) ADDITIONAL SOURCES OF INFORMATION.

AVAILABILITY: LIBRARY OF CONGRESS, 1ST STREET, WASHINGTON, D.C. 20003

IRIS ACCESSION NUMBER: EW015024

PUBLICATION DATE: JAN 87

TITLE: ASBESTOS: LC SCIENCE TRACER BULLET.

PERSONAL AUTHOR: EVANS, JOANNA

DESCRIPTOR: *AIR POLLUTION; *ASBESTOS; *BIBLIOGRAPHIES; *CANCER; *PUBLIC HEALTH; *REFERENCE MATERIALS; *RESEARCH REPORTS; ENVIRONMENT

DESCRIPTIVE NOTE: 12P. SEE SE 048 600

ABSTRACT: THIS GUIDE IS INTENDED TO ASSIST THOSE WHO WISH TO RESEARCH THE USES, DANGERS, AND PROBLEMS OF ASBESTOS. IT IS DESIGNED TO PROVIDE THE READER WITH A SET OF RESOURCES FOUND IN THE LIBRARY OF CONGRESS THAT CAN BE USED TO FOCUS ON THE TOPIC. THE DOCUMENT LISTS THE SUBJECT HEADINGS USED BY THE LIBRARY OF CONGRESS IN CATALOGUING INFORMATION ON ASBESTOS. IT ALSO CONTAINS CITATIONS OF MATERIALS CATEGORIZED AS: (1) BRIEF INTRODUCTIONS; (2) BASIC TEXTS; (3) ADDITIONAL TITLES; (4) HANDBOOKS AND ENCYCLOPEDIAS; (5) OTHER BIBLIOGRAPHIES; (6) CONFERENCE PROCEEDINGS; (7) GOVERNMENT PUBLICATIONS; (8) ABSTRACTING AND INDEXING SERVICES; (9) JOURNAL ARTICLES; (10) TECHNICAL REPORTS; AND (11) ADDITIONAL SOURCES OF INFORMATION.

AVAILABILITY: LIBRARY OF CONGRESS, 1ST STREET, WASHINGTON, D.C. 20003

IRIS ACCESSION NUMBER: EW015025

PUBLICATION DATE: SEPT 87

TITLE: IRIS: A COMPILATION OF ABSTRACTS TO WATER QUALITY AND WATER RESOURCES MATERIALS; SUPPLEMENT 31, 1987.

DESCRIPTOR: AUDIOVISUAL AIDS; CITIZEN PARTICIPATION; ENVIRONMENTAL EDUCATION; *HAZARDOUS MATERIALS; *INFORMATION DISSEMINATION; *INSTRUCTIONAL MATERIALS; *INDEXES; *POSTSECONDARY EDUCATION; *SLUDGE; *TECHNOLOGY; *TOXIC SUBSTANCES; *WASTE DISPOSAL; *WATER POLLUTION; *WATER RESOURCES; *WATER; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 101P. $5.00

ABSTRACT: COMPILED ARE ABSTRACTS AND INDEXES TO SELECTED PRINT AND NON-PRINT MATERIALS RELATED TO WASTEWATER TREATMENT AND WATER QUALITY EDUCATION AND INSTRUCTION, AS WELL AS MATERIALS RELATED TO HAZARDOUS MATERIALS AND SOLID WASTE DISPOSAL. TITLE, AUTHOR(S), PUBLICATION DATE, DESCRIPTORS AND ABSTRACTS ARE INCLUDED FOR EACH ENTRY. THIS PUBLICATION SUPPLEMENTS, BUT DOES NOT RAPLACE IRIS SUPPLEMENTS 1-30.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015027

PUBLICATION DATE: NOV 87

TITLE: MULTISTEP PROCESS FOR WASTE MINIMIZATION AND MATERIAL RECOVERY.

PERSONAL AUTHOR: ADAMS, J.H.; CAUFIELD, T.O.

DESCRIPTOR: *COSTS; *POLLUTION CONTROL; *RESOURCE RECOVERY; *TECHNOLOGY; *WASTES; *WASTE DISPOSAL; *WASTE REDUCTION; *WASTE TREATMENT

DESCRIPTIVE NOTE: 44-46P.

ABSTRACT: DISCUSSED ARE MULTISTEP PROCESSES FOR WASTE MINIMIZATION AND MATERIAL RECOVERY. WHILE THE CURRENT COSTS OF THESE TREATMENTS MAY BE HIGHER THAN OTHER TREATMENT, THE TOTAL COSTS OF THE OTHER TREATMENT WILL EXCEED MULTISTEP TREATMENT PROCESSES.

AVAILABILITY: POLLUTION ENGINEERING; V19 N11

IRIS ACCESSION NUMBER: EW015028

PUBLICATION DATE: NOV 87

TITLE: RESOURCE RECOVERY: A SPECIAL REPORT.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: GASES; *INCINERATION; LIQUIDS; PLASTICS; *RESOURCE RECOVERY; SOLIDS; *TECHNOLOGY; *WASTE DISPOSAL; *WASTE TREATMENT

DESCRIPTIVE NOTE: 52-58P.

ABSTRACT: DISCUSSED IS RESOURCE RECOVERY PRIMARILY THROUGH THE USE OF WASTES AS FUELS. INCLUDED ARE ENERGY VALUES FOR SOME WASTES, TREATMENT AND BURNING TECHNOLOGY, AND POLLUTION CONCERNS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N11

IRIS ACCESSION NUMBER: EW015029

PUBLICATION DATE: NOV 87

TITLE: THE NEW ENVIRONMENTAL PROTECTION: TECHNOLOGY EXISTS TO PREVENT POLLUTION.

PERSONAL AUTHOR: HIRSCHHORN, JOEL S.

DESCRIPTOR: *POLLUTION CONTROL; *PRODUCT REDESIGN; *RESOURCE RECOVERY; *TECHNOLOGY; *WASTES; *WASTE REDUCTION

DESCRIPTIVE NOTE: 62-64P.

ABSTRACT: DISCUSSED IS THE NEXT STAGE IN ENVIRONMENTAL PROTECTION--PREVENTING POLLUTION. WHILE SOME COMPANIES AND AGENCIES HAVE BEEN USING TECHNOLOGY TO REDUCE WASTES, PREVENTIVE PROGRAMS HAVE BEEN SLOW TO DEVELOP. EXAMPLES ARE GIVEN OF WASTE REDUCTION METHODS AND THE TECHNOLOGY USED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N11

IRIS ACCESSION NUMBER: EW015030

PUBLICATION DATE: NOV 87

TITLE: CLEANING UP SPILLED PCB'S--THE NATIONAL POLICY.

PERSONAL AUTHOR: SHEFCHEK, JOSEPH E.

DESCRIPTOR: CLEANUP; *HAZARDOUS MATERIALS; *POLICIES; *PCBS; *POLLUTION; *POLLUTION CONTROL; *REGULATIONS; *STANDARDS; SPILL CLEANUP; RECORDKEEPING; USEPA

DESCRIPTIVE NOTE: 66-68P.

ABSTRACT: A NATIONAL PCB CLEANUP POLICY BECAME EFFECTIVE IN 1987. PROVIDED IS AN OVERVIEW OF THE REQUIREMENTS, PERFORMANCE STANDARDS, AND IMPLICATIONS AND PROBLEMS.

AVAILABILITY: POLLUTION ENGINEERING; V19 N11

IRIS ACCESSION NUMBER: EW015032

PUBLICATION DATE: 88

TITLE: PRACTICAL STATISTICS FOR ENGINEERS AND SCIENTISTS.

PERSONAL AUTHOR: CHEREMISINOFF, NICHOLAS P.

DESCRIPTOR: *COLLEGE SCIENCE; *ENGINEERING; *ANALYTICAL TECHNIQUES; *INSTRUCTIONAL MATERIALS; *DATA ANALYSIS; *EXPERIMENTAL DESIGN; *SCIENCES; *STATISTICS

DESCRIPTIVE NOTE: 211P. $29.00 HARDCOVER

ABSTRACT: THIS PUBLICATION PROVIDES A HANDY REFERENCE OF STANDARD STATISTICAL ANALYSES AND DATA REGRESSION TECHNIQUES. SECTIONS ARE INCLUDED ON THE FOLLOWING TOPICS: (1) NOTATIONS AND DEFINITIONS; (2) CONFIDENCE LIMITS AND SAMPLE SIZE; (3) DATA SCATTER AND THE USE OF CONTROL CHARTS; (4) ANALYSIS OF VARIANCE; (5) THE CORRELATION COEFFICIENT AND INTRODUCTION TO SPECTRAL DENSITY ANALYSIS; (6) LINEAR REGRESSION AND INTERACTIVE MODELS; (7) EXPERIMENTAL DESIGN AND PARAMETER ESTIMATION; AND (8) APPENDICES. THE DOCUMENT DESCRIBES A SOFTWARE PROGRAM CALLED DATA-FIT THAT CAN BE USED WITH THE BOOK. THE SOFTWARE IS ALSO AVAILABLE FROM THE PUBLISHER.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015033

PUBLICATION DATE: 87

TITLE: INDUSTRIAL RADIATION HAZARDS DESKBOOK.

PERSONAL AUTHOR: CHEREMISINOFF, NICHOLAS P.; AND OTHERS

DESCRIPTOR: *ELECTROMAGNETIC WAVES; *ENVIRONMENTAL IMPACT; *HAZARDOUS MATERIALS; *PUBLIC HEALTH; *RADIATION; *NUCLEAR RADIATION; *POLLUTION; *POLLUTION CONTROL; *CARCINOGENS; *MONITORING; *IONIZING RADIATION; *ULTRAVIOLET RADIATION; *WASTE DISPOSAL; LASERS

DESCRIPTIVE NOTE: 228P. $39.00 SOFTCOVER

ABSTRACT: THIS PUBLICATION PROVIDES A DETAILED INTRODUCTION TO MOST SIGNIFICANT FORMS AND SOURCES OF RADIATION FOUND IN INDUSTRY, AND MATERIALS AND METHODS AVAILABLE FOR CONTROL, ABATEMENT AND PROTECTION. THE PUBLICATION HAS THE FOLLOWING CHAPTERS: (1) APPLICATIONS AND CONTROL OF ELECTROMAGNETIC WAVES; (2) OCCUPATIONAL HAZARDS OF RADIO FREQUENCIES AND MICROWAVES; (3) BIOLOGICAL AND OTHER EFFECTS OF ELECTROMAGNETIC RADIATIONS; (4) ULTRAVIOLET RADIATION; (5) HEALTH HAZARDS FROM LASER RADIATION; (6) ENVIRONMENTAL RADIATION; (7) ATOMIC ENERGY AND ITS BIOLOGICAL EFFECTS; (8) CARCINOGENIC PROPERTIES OF IONIZING RADIATION; AND (9) RADIATION PROTECTION AND CONTROL. ALSO CONTAINED ARE 31 TABLES AND 58 FIGURES.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015034

PUBLICATION DATE: 85

TITLE: MERCURY IN THE ECOSYSTEM.

PERSONAL AUTHOR: MITRA, SACHINATH

DESCRIPTOR: BIOLOGY; *HEAVY METALS; *ENVIRONMENTAL IMPACT; *MERCURY; *PUBLIC HEALTH; *POLLUTION; *POLLUTION CONTROL; *SAFETY; *REGULATIONS; *POLICIES

DESCRIPTIVE NOTE: 260P. $39.00 HARDCOVER

ABSTRACT: THIS PUBLICATION PROVIDES A COMPREHENSIVE

SCIENTIFIC REVIEW OF THE SOURCES, MOVEMENT, USES AND EFFECTS OF MERCURY AND ITS COMPOUNDS IN ALL AREAS OF THE ENVIRONMENTAL CHAIN--AIR, WATER, SOIL, PLANT AND ANIMAL LIFE, FOOD AND HUMANS. SECTIONS ARE INCLUDED ON THE FOLLOWING TOPICS: (1) MERCURY IN THE UNIVERSE; (2) MINERALOGY AND GEOCHEMISTRY OF MERCURY; (3) SOURCES OF MERCURY IN THE ENVIRONMENT; (4) MOVEMENT OF MERCURY IN THE ENVIRONMENT; (5) ANALYSIS OF MERCURY; (6) MERCURY IN MAMMALS; (7) MERCURY IN PLANTS, BIRDS, AND FISH; (8) MERCURY POLLUTION, POISONING AND THERAPY; (9) MAJOR CASE STUDIES; AND (10) SAFETY MEASURES AND POLICIES.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015035

PUBLICATION DATE: 87

TITLE: 41ST INDUSTRIAL WASTE CONFERENCE PROCEEDINGS.

PERSONAL AUTHOR: BELL, J.M.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *CASE HISTORIES; *INDUSTRIAL WASTES; *HAZARDOUS WASTES; *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *RESOURCE RECOVERY; *TOXIC WASTES; *WASTES; *WASTE DISPOSAL; *WASTE REDUCTION; *WASTE TREATMENT

DESCRIPTIVE NOTE: 785P. $89.95 CLOTH

ABSTRACT: THIS IS THE PROCEEDINGS OF A 1986 CONFERENCE. THE PUBLICATION CONTAINS 91 PAPERS ORGANIZED INTO 14 SECTIONS. THE PAPERS ARE ON A WIDE VARIETY OF TOPICS RELATED TO THE SUBJECT AND INCLUDE CASE STUDIES, OPERATING DATA, AND RESEARCH REPORTS.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 S. MAIN ST., P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW015036

PUBLICATION DATE: 86

TITLE: GUIDE SPECIFICATIONS ON ASBESTOS ABATEMENT IN BUILDINGS.

DESCRIPTOR: *ASBESTOS ABATEMENT; *CONSTRUCTION; *DEMOLITION; *HAZARDOUS MATERIALS; *REGULATIONS; *PUBLIC HEALTH; *REMODELING; *TOXIC SUBSTANCES; *AIR POLLUTION CONTROL

DESCRIPTIVE NOTE: 278P. $75.00

ABSTRACT: THIS GUIDE PROVIDES A RESOURCE FOR PERSONS INTERESTED IN ASBESTOS ABATEMENT IN BUILDINGS. THE FOLLOWING TOPICS ARE INCLUDED IN THE DISCUSSION: (1) MAINTENANCE AND REPAIR; (2) ENCAPSULATION; (3) ENCLOSURE; (4) REMOVAL; AND (5) RECONSTRUCTION OF THE WORK AREA. THE BOOK COMPLEMENTS PROCEDURES AND RECOMMENDATIONS AS SET FORTH BY USEPA.

AVAILABILITY: NATIONAL INSTITUTE OF BUILDING SCIENCES, 1015 15TH STREET, N.W., WASHINGTON, D.C. 20005

IRIS ACCESSION NUMBER: EW015037

PUBLICATION DATE: 87

TITLE: A GUIDE TO WORKING WITH HAZARDOUS MATERIALS.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *ACCIDENT PREVENTION; *HAZARD IDENTIFICATION; *HAZARDOUS MATERIALS; *MATERIALS HANDLING; *PUBLIC HEALTH; *SAFETY; *TOXIC SUBSTANCES; *REGULATIONS; *OCCUPATIONAL SAFETY

DESCRIPTIVE NOTE: 217P. $19.95

ABSTRACT: THIS BOOK IS WRITTEN FOR MOST PEOPLE WHO WORK WITH HAZARDOUS MATERIALS. THE MONOGRAPH INCLUDES: (1) AN INTRODUCTION TO HAZARD IDENTIFICATION; (2) HAZARD AND TOXICITY EVALUATION; (3) PRINCIPLES OF VENTILATION, CONFINED SPACE ENTRY, HEAT AND COLD STRESS, COMPRESSED GASES AND CRYOGENS; AND (4) PERSONAL PROTECTION.

AVAILABILITY: PIEDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015038

PUBLICATION DATE: 87

TITLE: INSTITUTIONAL ARRANGEMENTS FOR GREAT LAKES MANAGEMENT: PAST PRACTICES AND FUTURE ARRANGEMENTS.

DESCRIPTOR: *NEEDS ASSESSMENT; *GREAT LAKES; *LAKES; *PLANNING; *MANAGEMENT; *RESEARCH REPORTS; *SURVEYS; *INSTITUTIONS; *POLICIES; *WATER QUALITY; *WATER RESOURCES; *COOPERATIVE ACTIVITIES; *GOVERNANCE

DESCRIPTIVE NOTE: 384P. $20.00; EXECUTIVE SUMMARY - 104 PP, $4.00

ABSTRACT: REPORTED ARE FINDINGS OF A STUDY THAT SURVEYED OVER 100 OF THE REGION'S KEY GOVERNMENT OFFICIALS, CITIZEN LEADERS, AND ACADEMICIANS. THE SURVEY WAS A CENTRAL ELEMENT IN A STUDY TO IDENTIFY OPTIONS FOR STRENGTHENING REGIONAL APPROACHES TO GREAT LAKES MANAGEMENT. EXAMINED WERE FOUR PUBLIC REGIONAL INSTITUTIONS (INTERNATIONAL JOINT COMMISSION, GREAT LAKES COMMISSION, COUNCIL OF GREAT LAKES GOVERNORS, AND GREAT LAKES FISHERY COMMISSION), THEIR INTERACTIONS, AND THEIR RELATIONSHIPS WITH THE VARIOUS STATE, PROVINCIAL AND FEDERAL AGENCIES WITH GREAT LAKES MANAGEMENT RESPONSIBILITY. FOUR SCENARIOS FOR INSTITUTIONAL CHANGE ARE PRESENTED, RANGING FROM PRESERVATION OF THE "STATUS QUO" TO OUTRIGHT REPLACEMENT OF EXISTING INSTITUTIONS WITH A SINGLE "IDEAL" ONE.

AVAILABILITY: MICHIGAN SEA GRANT COLLEGE PROGRAM, THE UNIVERSITY OF MICHIGAN, 2200 BONISTEEL BOULEVARD, ANN ARBOR, MI 48109-2099

IRIS ACCESSION NUMBER: EW015039

PUBLICATION DATE: JAN 88

TITLE: HAZARDOUS MATERIALS DICTIONARY.

PERSONAL AUTHOR: COLEMAN, RONNY J.; WILLIAMS, KARA HEWSON

DESCRIPTOR: *DICTIONARIES; *HAZARDOUS MATERIALS; *REFERENCE MATERIALS; *VOCABULARY; MATERIALS HANDLING; MATERIAL STORAGE; TRANSPORTATION; WASTE DISPOSAL; REGULATIONS; EMERGENCY RESPONSE; SAFETY

DESCRIPTIVE NOTE: 184P. $39.00 HARDCOVER

ABSTRACT: THIS PUBLICATION PRESENTS A DICTIONARY FOR MORE THAN 2,600 WORDS, PHRASES, ABBREVIATIONS AND ACRONYMS RELATED TO HAZARDOUS MATERIALS. ENTRIES COVER THE ENTIRE RANGE OF HAZARDOUS MATERIALS CLASSIFICATION, HANDLING, STORAGE, TRANSPORTATION, DISPOSAL, REGULATION, EMERGENCIES, AND EMERGENCY RESPONSE.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015040

PUBLICATION DATE: 86

TITLE: A STATISTICAL ABSTRACT OF THE UNSEWERED U.S. POPULATION.

PERSONAL AUTHOR: KREISSEL, JAMES

DESCRIPTOR: *DEMOGRAPHIC DATA; *ONSITE WASTEWATER DISPOSAL; *NEEDS ASSESSMENT; *SURVEYS; *UNSEWERED HOUSES; *WASTEWATER TREATMENT; *WATER POLLUTION CONTROL; *RURAL AREAS; *TRENDS; *WATER SUPPLY

DESCRIPTIVE NOTE: 70P. PRICE: $5.20

ABSTRACT: THE PURPOSE OF THIS REPORT IS TO PROVIDE DEMOGRAPHIC AND HOUSING CHARACTERISTICS OF THE UNSEWERED POPULATION IN THE U.S. BASED ON 1970 AND 1980 CENSUS DATA. UNSEWERED POPULATION AND HOUSING UNITS ARE ENUMERATED FOR EACH STATE/STATE GROUP. THE DOCUMENT IS DIVIDED INTO THREE SECTIONS. SECTION I DESCRIBES THE SALIENT FEATURES OF SINGLE FAMILY UNSEWERED DWELLINGS IN 1970 AND 1980. SECTION II PROVIDES DETAILED ANALYSES OF THE 1980 CENSUS DATA. SECTION III DESCRIBES ANALYSES OF THE 1970 CENSUS DATA.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015041

PUBLICATION DATE: NOV 87

TITLE: SLUDGE COMPOSTING ON THE RISE.

PERSONAL AUTHOR: GOLDSTEIN, NORA

DESCRIPTOR: *COMPOSTING; *COSTS; *EQUIPMENT; *FACILITIES; *MARKETING; *OPERATIONS (WASTEWATER); *SLUDGE; *RESOURCE RECOVERY; *RECYCLING; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 24-29P.

ABSTRACT: A SURVEY WAS CONDUCTED IN 1987 TO DETERMINE THE EXTENT AND TYPES AND OPERATIONS RELATED TO COMPOSTING OF MUNICIPAL WASTEWATER SLUDGE. APPROXIMATELY 200 FACILITIES WERE IDENTIFIED. INFORMATION IS REPORTED RELATED TO FACILITY DESIGN, EQUIPMENT, OPERATIONAL PROBLEMS, MARKETS FOR COMPOST, AND CAPITAL AND OPERATING COSTS.

AVAILABILITY: BIOCYCLE; V28 N10

IRIS ACCESSION NUMBER: EW015042

PUBLICATION DATE: SEPT 87

TITLE: TRAINING AND COMMUNICATION NEEDED TO REDUCE INJURIES AND ILLNESSES.

PERSONAL AUTHOR: RENSINK, MELAINE S.; AND OTHERS

DESCRIPTOR: *ACCIDENT PREVENTION; *INDUSTRY; ACCIDENTS; ENVIRONMENTAL TECHNICIANS; *SAFETY; *SAFETY EDUCATION; *TRAINING; *OCCUPATIONAL SAFETY; *OCCUPATIONAL HEALTH; *HAZARDOUS MATERIALS; *SURVEYS; *COMMUNICATION; *PROGRAM NEEDS; *COLORADO

DESCRIPTIVE NOTE: 78-79P.

ABSTRACT: REPORTS ON A SURVEY OF HEALTH AND SAFETY PROGRAMMING NEEDS IN SMALL HIGH-HAZARD INDUSTRIES IN THE METROPOLITAN DENVER (COLORADO) AREA. RESPONDING EMPLOYERS TENDED TO BE MOST INTERESTED IN PROGRAMS WHICH RELATE TO OCCUPATIONAL INJURIES, ESPECIALLY CUTS AND BRUISES, BACK INJURIES, AND EYE INJURIES.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V50 N2

IRIS ACCESSION NUMBER: EW015043

PUBLICATION DATE: SEPT 87

TITLE: FLOW LOSS IN A PRESSURE SEWAGE LINE.

PERSONAL AUTHOR: MITCHELL, MICHAEL D.

DESCRIPTOR: ANALYTICAL TECHNIQUES; *CALCULATIONS; *FLOW LOSS; *FLUID FLOW; *PIPES; *PRESSURE SEWAGE PIPES; *PVC PIPES; *SEWERS; *WASTEWATER COLLECTION

DESCRIPTIVE NOTE: 84-86P.

ABSTRACT: TYPICAL EQUATIONS USED FOR CALCULATING FLOW LOSS IN A PIPE ARE SURVEYED AND SIGNIFICANT CHARACTERISTICS OF COMMONLY AVAILABLE PVC PIPES ARE EXAMINED.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V50 N2

IRIS ACCESSION NUMBER: EW015044

PUBLICATION DATE: OCT 87

TITLE: FOCUS ON HAZARDOUS MATERIALS.

DESCRIPTOR: *ACCIDENT PREVENTION; *CHEMICAL REACTIONS; *HAZARDOUS MATERIALS; *CHEMICAL PROPERTIES; *OLEUM; *PHYSICAL PROPERTIES; *SAFETY

DESCRIPTIVE NOTE: 27-28P.

ABSTRACT: INFORMATION IS PRESENTED ON OLEUM (ALSO CALLED FUMING SULFURIC ACID). PROCEDURES FOR HANDLING OLEUM ARE LISTED AND POTENTIAL HAZARDS AND CHEMICAL REACTIVITY ARE INDICATED.

AVAILABILITY: INDUSTRIAL FIRE WORLD; V2 N5

IRIS ACCESSION NUMBER: EW015045

PUBLICATION DATE: 87

TITLE: CLEAN WATER ACT UPDATE.

PERSONAL AUTHOR: FRYE, RUSSELL S.; AND OTHERS

DESCRIPTOR: *COMPLIANCE; *LEGISLATION; *LITIGATION; *POLICIES; *REGULATIONS; *ENFORCEMENT; *EFFLUENT; *WATER QUALITY; *WATER QUALITY ACT OF 1987

DESCRIPTIVE NOTE: $59.95

ABSTRACT: THIS BOOK IS WRITTEN AS A SUPPLEMENTAL VOLUME TO THE CLEAN WATER ACT PERMIT GUIDANCE MANUAL. THE UPDATE CAN BE USED AS A SEPARATE VOLUME OR IN CONJUNCTION WITH THE ORIGINAL BOOK. SECTIONS ARE INCLUDED ON THE FOLLOWING TOPICS: (1) INTRODUCTION; (2) SUMMARY OF THE WATER QUALITY ACT OF 1987; (3) REGULATORY AND JUDICIAL DEVELOPMENTS; AND (4) APPENDICES.

AVAILABILITY: EXECUTIVE ENTERPRISES PUBLICATIONS CO., INC., 22 WEST 21ST STREET, NEW YORK, N.Y. 10010-6904

IRIS ACCESSION NUMBER: EW015046

PUBLICATION DATE: 87

TITLE: THE PESTICIDE REGULATION HANDBOOK. REVISED EDITION.

PERSONAL AUTHOR: CONNER, JOHN D.

DESCRIPTOR: *AGRICULTURE; *COMPLIANCE; DATA USE; *ENFORCEMENT; *INDUSTRY; *LEGISLATION; *PESTICIDE APPLICATIONS; *PESTICIDES; *RISK ASSESSMENT; *PUBLIC HEALTH; *REGULATIONS; *TOXIC SUBSTANCES; *USEPA

DESCRIPTIVE NOTE: $75.00

ABSTRACT: THIS HANDBOOK IS A REVISION OF AN EARLIER EDITION. THE BOOK SHOULD SERVE AS A GUIDE TO LAWS AND REGULATIONS CONCERNING THE PESTICIDE INDUSTRY. SECTIONS ARE INCLUDED ON: (1) EVOLUTION OF PESTICIDE REGULATION; (2) ADMINISTRATION OF EPA'S PESTICIDE PROGRAM; (3) PESTICIDE REGULATION; (4) TOLERANCES AND FOOD ADDITIVE REGULATIONS; (5) REGULATION OF GENETICALLY ENGINEERED MICROBIAL PESTICIDES; (6) REREGISTRATION AND DATA CALL-INS; (7) USE OF DATA; (8) SPECIAL REVIEW, CANCELLATION, AND SUSPENSION; (9) RISKS AND BENEFITS; (10) PESTICIDE ENFORCEMENT; (11) STATE REGULATION OF PESTICIDES; (12) REGULATION OF PESTICIDE APPLICATORS; (13) REGULATION OF PESTICIDE WASTES; AND (14) FEDERAL STATUTES REGULATING PESTICIDES.

AVAILABILITY: EXECUTIVE ENTERPRISES PUBLICATIONS CO., INC., 22 WEST 21ST STREET, NEW YORK, NY 10010-6904

IRIS ACCESSION NUMBER: EW015047

PUBLICATION DATE: 86

TITLE: PIECES OF THE GLOBAL PUZZLE: INTERNATIONAL APPROACHES TO ENVIRONMENTAL CONCERNS.

PERSONAL AUTHOR: BLACKBURN, ANNE M.

DESCRIPTOR: ECONOMICS; *ENVIRONMENTAL QUALITY; *ENVIRONMENTAL IMPACT; *INDUSTRY ROLE; *GOVERNMENT ROLE; *POLICIES; *WORLD PROBLEMS; WILDLIFE; LAND USE; RESEARCH; *POLLUTION CONTROL; FORESTS

DESCRIPTIVE NOTE: 214P. $13.95

ABSTRACT: THIS PUBLICATION CONTAINS EXCERPTS FROM PAPERS AND ARTICLES PUBLISHED IN 18 ISSUES OF THE ENVIRONMENTALIST BETWEEN 1981-84 PLUS OBSERVATIONS OF THE AUTHOR AND INFORMATION FROM OTHER SOURCES. SECTIONS ARE INCLUDED ON: (1) UNDERSTANDING THE NEW GLOBAL PUZZLE; (2) KEY UNITED STATES PIECES OF THE NEW GLOBAL PUZZLE; (3) FITTING THE PIECES TOGETHER; AND (4) CONCLUSION. THE APPENDICES INCLUDE A SELECTED BIBLIOGRAPHY AND A SELECTED LIST OF INTITUTIONS AND PROJECTS RELATED TO THE ENVIRONMENT.

AVAILABILITY: FULCRUM, INC., 350 INDIANA STREET, #510, GOLDEN, CO 80401

IRIS ACCESSION NUMBER: EW015048

PUBLICATION DATE: 86

TITLE: ACID RAIN. REIGN OF CONTROVERSY.

PERSONAL AUTHOR: KAHAN, ARCHIE M.

DESCRIPTOR: *ACID RAIN; *ECONOMICS; *ENVIRONMENTAL IMPACT; *INDUSTRIAL WASTES; *SOCIAL IMPACT; INDUSTRY; *POLICIES; *REGULATIONS; COAL MINING; ELECTRIC POWER; POLLUTION; *FEDERAL ROLE; *RECOMMENDATIONS; POLLUTION CONTROL; *WATER POLLUTION CONTROL; *AIR POLLUTION CONTROL

DESCRIPTIVE NOTE: 252P. $14.95

ABSTRACT: THIS BOOK PROVIDES AN INTRODUCTION TO ACID RAIN AND ENVIRONMENTAL, ECONOMIC, SOCIAL, POLITICAL, AND POLICY IMPLICATIONS. THE DISCUSSION CONSIDERS GROUPS WITH INTERESTS RELATED TO ACID RAIN INCLUDING ENVIRONMENTAL GROUPS, COAL MINING GROUPS, ELECTRIC POWER GROUPS, THE SCIENTIFIC COMMUNITY AND GOVERNMENT AGENCIES. SOME POSSIBLE SOLUTIONS TO THE PROBLEM ARE PRESENTED.

AVAILABILITY: FULCRUM, INC., 350 INDIANA ST., #510, GOLDEN, CO 80401

IRIS ACCESSION NUMBER: EW015049

PUBLICATION DATE: 87

TITLE: BIOTECHNOLOGICAL ADVANCES IN PROCESSING MUNICIPAL WASTES FOR FUELS AND CHEMICALS.

PERSONAL AUTHOR: ANTONOPOULOS, A.A.

DESCRIPTOR: *ANAEROBIC DIGESTION; DEVELOPMENT; *BIOTECHNOLOGY; CHEMICALS; *MUNICIPAL WASTES; FUELS; *RESOURCE RECOVERY; *WASTE DISPOSAL; *RESEARCH; *WASTE TREATMENT; MICROBIOLOGY; *TECHNOLOGY; *WASTE RECOVERY

DESCRIPTIVE NOTE: 488P. $45.00

ABSTRACT: THIS BOOK IS BASED ON A SERIES OF PRESENTATIONS PREPARED BY A FORUM OF EXPERTS IN VARIOUS RELATED FIELDS. IT COVERS MANY RESEARCH AREAS WITH PRIMARY EMPHASIS ON UNDERSTANDING: (1) THE PHYSIOLOGY, BIOCHEMISTRY, AND GENETICS OF MICROBES INVOLVED IN ANAEROBIC DIGESTION; (2) THE VARIOUS MICROECOLOGICAL INTERACTIONS; (3) THE BIOLOGICAL PRODUCTION OF FUELS AND CHEMICALS; AND (4) THE GENERATION AND EXTRACTION OF LANDFILL GAS.

AVAILABILITY: NOYES PUBLICATIONS, PUBLICITY DEPARTMENT, MILL ROAD AT GRAND AVE., PARK RIDGE, NJ 07656

IRIS ACCESSION NUMBER: EW015050

PUBLICATION DATE: 87

TITLE: TOXIC AND HAZARDOUS WASTES.

PERSONAL AUTHOR: EVANS, J.C.

DESCRIPTOR: *BIOLOGICAL TREATMENT; *HAZARDOUS WASTES; *INDUSTRIAL WASTES; *CHEMICAL TREATMENT; *RECYCLING; *LIABILITY; *TOXIC WASTES; *REGULATIONS; *POLLUTION CONTROL;

*WASTE REDUCTION; *WASTEWATER TREATMENT; *WASTE TREATMENT

DESCRIPTIVE NOTE: 716P. $65.00 PAPERBACK

ABSTRACT: THIS BOOK IS A COMPILATION OF 58 PAPERS PRESENTED AT THE 19TH MIDATLANTIC INDUSTRIAL WASTE CONFERENCE IN JUNE, 1987. PAPERS ARE INCLUDED ON THE FOLLOWING TOPICS: (1) ASPECTS OF BIOLOGICAL TREATMENT; (2) CONTAMINATED SOILS; (3) CHEMICAL TREATMENT; (4) RECYCLING; (5) REMEDIAL ACTION; (6) REGULATORY ISSUES; (7) LEGAL ISSUES; (8) CONTROL TECHNOLOGY; AND (9) UNDERGROUND STORAGE TANKS.

AVAILABILITY: TECHNOMIC PUBLISHING CO., INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015051

PUBLICATION DATE: 87

TITLE: GEOTECHNICAL AND GEOHYDROLOGICAL ASPECTS OF WASTE MANAGEMENT.

PERSONAL AUTHOR: VAN ZYL, D.J.A.; AND OTHERS

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *FACILITIES; *HYDROLOGY; *HAZARDOUS WASTES; *LANDFILLS; *MANAGEMENT; *LIABILITY; *WASTE MANAGEMENT; *WASTE DISPOSAL; *POLLUTION CONTROL; *TECHNOLOGY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 312P. $49.95 CLOTH

ABSTRACT: THIS BOOK IS THE PROCEEDINGS OF THE NINTH ANNUAL SYMPOSIUM ON GEO-ASPECTS OF WASTE MANAGEMENT HELD AT FORT COLLINS, FEB. 2-6, 1987. IT CONTAINS 24 CONTRIBUTED PAPERS WHICH DISCUSS: (1) DEVELOPMENTS IN THE TECHNOLOGY OF THE GEOTECHNICAL AND GEOHYDROLOGICAL ASPECTS OF WASTE MANAGEMENT FACILITIES AND EVALUATE THE CURRENT STATE OF THE ART; (2) PERMEABILITY, DURABILITY, AND APPLICABILITY, AND OTHER PERTINENT CONSIDERATIONS OF EARTH LINERS (CLAY, BENTONITE) AND GEOMEMBRANES; (3) THE DESIGN AND OPERATION OF SURFACE IMPOUNDMENTS AND HAZARDOUS WASTE LANDFILLS; (4) LEACHING OF HAZARDOUS AND RADIOACTIVE MATERIALS FROM SOLIDIFIED WASTE FORMS; (5) MEASUREMENTS OF WATER INFILTRATION AND NUCLIDE RELEASES FROM LABORATORY MODELS OF ENGINEERED FACILITIES; (6) MANAGEMENT FOR HAZARDOUS WASTE LIABILITY; AND (7) INVESTIGATING SUBSURFACE FUEL RELEASES.

AVAILABILITY: LEWIS PUBLISHERS, INC., 121 S. MAIN ST., P.O. DRAWER 519, CHELSEA, MI 48118

IRIS ACCESSION NUMBER: EW015052

PUBLICATION DATE: SEPT 86

TITLE: SEWAGE SLUDGE: A VALUABLE RESOURCE.

DESCRIPTOR: *AGRICULTURE; *FERTILIZER; *LAND APPLICATION; *OPERATIONS (WASTEWATER); *SLUDGE; *SEWAGE SLUDGE; *RECYCLING; *RESOURCE RECOVERY; *WASTE DISPOSAL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 10P.

ABSTRACT: THIS BRIEF DOCUMENT EXPLAINS WHAT SEWAGE SLUDGE IS, HOW IT CAN BE USED FOR LAND APPLICATION AND SOME GUIDELINES FOR USE.

AVAILABILITY: OHIO EPA PUBLIC INTEREST CENTER, P.O. BOX 1049, COLUMBUS, OH 43216-1049

IRIS ACCESSION NUMBER: EW015053

PUBLICATION DATE: JULY 87

TITLE: GROUNDWATER (OHIO EPA).

DESCRIPTOR: *GROUNDWATER; *OHIO; *NATURAL RESOURCES; *WATER RESOURCES; *WATER QUALITY; *WATER SUPPLY

DESCRIPTIVE NOTE: 23P.

ABSTRACT: THIS PUBLICATION DISCUSSES GROUNDWATER--WHAT IT IS, HOW IT IS USED, HOW ITS QUALITY IS AFFECTED, AND WHAT THE STATE PLANS TO DO TO PREVENT FURTHER CONTAMINATION AND DEPLETION OF THIS ABUNDANT AND VALUABLE RESOURCE. IN OHIO, NEARLY 40 PERCENT OF THE POPULATION USES GROUNDWATER FOR DRINKING WATER AND HOUSEHOLD USES, SO GROUNDWATER IS IMPORTANT TO MANY PEOPLE AND COMMUNITIES.

AVAILABILITY: OHIO EPA PUBLIC INTEREST CENTER, P.O. BOX 1049, COLUMBUS, OH 43216-1049

IRIS ACCESSION NUMBER: EW015054

PUBLICATION DATE: 87

TITLE: POST CONSTRUCTION PERFORMANCE OF SCHREIBER CONTER-CURRENT AERATION FACILITIES.

PERSONAL AUTHOR: HEIDMAN, JAMES

DESCRIPTOR: *AERATION; *COSTS; *EQUIPMENT; *ENERGY CONSERVATION; *SCHREIBER AERATION SYSTEM; *PERFORMANCE EVALUATION; *OPERATIONS (WASTEWATER); *TECHNOLOGY; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 352P. PRICE: $22.12

ABSTRACT: THIS DOCUMENT PRESENTS THE RESULTS OF A TECHNOLOGY ASSESSMENT OF THE SCHREIBER COUNTER-CURRENT AERATION SYSTEM. AS OF THE FALL OF [illegible], [illegible] PLANTS UTILIZING THIS TECHNOLOGY WERE EITHER OPERATING OR UNDER CONSTRUCTION IN THE UNITED STATES. THIS AERATION PROCESS EMPLOYS AIR DIFFUSERS MOUNTED AT THE BOTTOM OF A ROTATING BRIDGE IN A CIRCULAR AERATION TANK. THIS CONFIGURATION IS CLAIMED TO REDUCE ENERGY COSTS BY PROVIDING A HIGHER OXYGEN TRANSFER EFFICIENCY THAN ALTERNATE METHODS. OPERATING RECORDS AT THE COUNTER-CURRENT AERATION FACILITIES IN CARLISLE AND [illegible], PENNSYLVANIA, AND CLAIBORNE COUNTY AND LOUDON, TENNESSEE WERE USED TO DETERMINE PERFORMANCE AND ENERGY REQUIREMENTS AT THESE FACILITIES. THESE RECORDS WERE SUPPLEMENTED BY ON-SITE MEASUREMENTS OF AIR FLOWS, POWER USAGE, AND ADDITIONAL WASTEWATER SAMPLING. HISTORICAL OPERATING RECORDS WERE ALSO REVIEWED AT OTHER MUNICIPAL SCHREIBER INSTALLATIONS TO GAIN ADDITIONAL INFORMATION ON EQUIPMENT RELIABILITY AND CAPITAL COSTS. EXTENSIVE TABULATIONS OF RAW DATA ARE PROVIDED IN NUMEROUS APPENDICES AND RESULTS ARE SUMMARIZED AND ANALYZED IN THE MAIN BODY OF THE REPORT.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015055

PUBLICATION DATE: SEPT 87

TITLE: FINAL INTERIM REPORT ON ASSESSMENT OF POTENTIAL FOR WORKER EXPOSURE TO R-DNA IN LARGE-SCALE PROCESSING FACILITIES.

PERSONAL AUTHOR: REICHENBACH, N.G.; AND OTHERS

DESCRIPTOR: *BIOTECHNOLOGY; *ACCIDENT PREVENTION; *MICROBIOLOGY; *ANALYTICAL TECHNIQUES; *GENETICALLY ENGINEERED MICROORGANISMS; *INDUSTRIAL WASTES; *OCCUPATIONAL HEALTH; *REGULATIONS; *RESEARCH REPORTS; *PUBLIC HEALTH; *SAFETY; *POLICIES; *WASTEWATER TREATMENT; *WORKER EXPOSURE

DESCRIPTIVE NOTE: 170P. PRICE: $11.20

ABSTRACT: THIS REPORT PRESENTS A SYSTEMATIC APPROACH FOR EVALUATING WORKER EXPOSURE TO GENETICALLY ENGINEERED MICROORGANISMS (GEM'S) IN LARGE SCALE BIOTECHNOLOGY. A QUALITATIVE MODEL WAS PREPARED AND COMPARED TO DATA FROM THREE FACILITIES. A QUANTITATIVE MODEL WAS THEN PREPARED. SECTIONS IN THE PUBLICATION INCLUDE: (1) INTRODUCTION; (2) SUMMARY OF STATUTES AND REGULATIONS CONCERNING WORKER EXPOSURE IN FACILITIES USING R-DNA TECHNOLOGY; (3) METHODOLOGY FOR EVALUATING WORKER EXPOSURE; (4) INFORMATION BASE; (5) SCOPE AND APPROACH TO MODELING; (6) QUALITATIVE MODEL; (7) QUANTITATIVE MODEL; AND (8) REFERENCES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015056

PUBLICATION DATE: 87

TITLE: EFFECT OF WASTEWATER DISINFECTION ON SURVIVAL OF R-FACTOR COLIFORM BACTERIA.

PERSONAL AUTHOR: STALEY, JAMES T.; AND OTHERS

DESCRIPTOR: *BACTERIA; *DISINFECTION; *COLIFORM BACTERIA; *CHLORINE; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *SECONDARY WASTEWATER TREATMENT; *WASTEWATER TREATMENT; *WATER QUALITY; *OZONE; *ULTRAVIOLET RADIATION

DESCRIPTIVE NOTE: 120P. PRICE: $8.20

ABSTRACT: THE OBJECTIVES OF THE STUDY WERE TO DETERMINE THE INCIDENCE OF ANTIBIOTIC RESISTANCE AMONG COLIFORM BACTERIA IN A SECONDARY WASTEWATER TREATMENT FACILITY AND TO DETERMINE WHETHER VARIOUS ALTERNATIVE DISINFECTION PROCEDURES WOULD SELECT FOR OR AGAINST ANTIBIOTIC RESISTANT COLIFORMS. THE DISINFECTANTS TESTED (CHLORINE, OZONE, AND ULTRAVIOLET LIGHT) RESULTED IN SIGNIFICANT DECREASES BOTH IN ANTIBIOTIC-RESISTANT AS WELL AS ANTIBIOTIC-SENSITIVE COLIFORMS. NO DRAMATIC SELECTION FOR ANTIBIOTIC-RESISTANT TYPES WAS APPARENT DURING DISINFECTION WITH ANY OF THE PROCESSES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015057

PUBLICATION DATE: 87

TITLE: DESORPTION OF HEAVY METALS FROM SLUDGE BY SEAWATER. MASTERS THESIS DRAFT.

PERSONAL AUTHOR: STYKEMAIN, KURT E.

DESCRIPTOR: ENVIRONMENTAL IMPACT; OCEANOGRAPHY; *HEAVY METALS; *SEA WATER; *SLUDGE; METALS; *WASTE DISPOSAL; *WASTEWATER TREATMENT; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 124P. PRICE: $8.44

ABSTRACT: THIS THESIS EVALUATED THE POTENTIAL OF HEAVY METAL RELEASE FROM THREE FAIRFIELD POTW SLUDGES WHEN DISCHARGED INTO A SALINE ENVIRONMENT. THIS WAS ACCOMPLISHED BY THE EXAMINATION OF BOTH THE SOLUBLE AND PARTICULATE PHASE METAL CONCENTRATIONS FOUND IN A SEAWATER/SLUDGE SOLID SUSPENSION. THE RELEASE OF THE HEAVY METALS WAS EXAMINED FROM BOTH A KINETIC AND EQUILIBRIUM BASIS. RESULTS ARE REPORTED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015058

PUBLICATION DATE: 87

TITLE: C-WW, WASTEWATER TREATMENT PLANT OPERATION, CLASS C. STUDY GUIDE.

PERSONAL AUTHOR: CLIFTON, JIM

DESCRIPTOR: *INDEPENDENT STUDY; *CORRESPONDENCE COURSES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WASTEWATER); *POSTSECONDARY EDUCATION; *OPERATOR TRAINING; *UNIT PROCESSES; *WASTEWATER TREATMENT; MAINTENANCE; SAFETY; TROUBLESHOOTING; SAMPLING; REGULATIONS

DESCRIPTIVE NOTE: 881P. $16.00

ABSTRACT: THIS CORRESPONDENCE COURSE IS DESIGNED TO PROVIDE INSTRUCTION IN THE BASIC PRINCIPLES INVOLVED IN DOMESTIC WASTEWATER TREATMENT PLANT OPERATION. THE COURSE DEALS WITH THE PRACTICAL AND THEORETICAL ASPECTS OF THE SUBJECT. THE COURSE IS APPROVED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION. THE COURSE CONTAINS 13 LESSONS. EACH LESSON USUALLY INCLUDES A READING ASSIGNMENT, OBJECTIVES, DISCUSSION, VOCABULARY REVIEW, DEMONSTRATIONS, AND SELF-HELP TEST, AND WRITTEN ASSIGNMENTS. LESSONS ARE INCLUDED ON: (1) INTRODUCTION TO WASTEWATER: CHARACTERISTICS AND TREATMENT; (2) WASTEWATER MATHEMATICS; (3) SAMPLING, TESTING, AND TROUBLESHOOTING; (4) SAFETY AND MAINTENANCE; (5) PRELIMINARY AND PRIMARY TREATMENT; (6) TRICKLING FILTERS; (7) ACTIVATED SLUDGE: INTRODUCTION; (8) SECONDARY CLARIFICATION; (9) ACTIVATED SLUDGE PROCESS CONTROL; (10) SLUDGE QUALITY CONTROL; (11) SLUDGE DIGESTION AND DEWATERING; (12) DISINFECTION AND CHLORINATION; AND (13) REGULATORY REQUIREMENTS.

AVAILABILITY: UNIVERSITY OF FLORIDA, DEPT. OF INDEPENDENT STUDY BY CORRESPONDENCE, DIV. OF CONT. ED., 1223 NW 22ND AVE., GAINESVILLE, FL 32609

IRIS ACCESSION NUMBER: EW015059

PUBLICATION DATE: 85

TITLE: WT-1, WATER TREATMENT PLANT OPERATIONS. STUDY GUIDE.

PERSONAL AUTHOR: BLALOCK, CAROL

DESCRIPTOR: *INDEPENDENT STUDY; *CORRESPONDENCE COURSES; *INSTRUCTIONAL MATERIALS; *OPERATIONS (WATER); *POSTSECONDARY EDUCATION; *OPERATOR TRAINING; *UNIT PROCESSES; *WATER TREATMENT; MAINTENANCE; MANAGEMENT; TROUBLESHOOTING; SAMPLING; REPORTING; ADMINISTRATION; LABORATORY PROCEDURES

DESCRIPTIVE NOTE: 277P. $11.00

ABSTRACT: THIS COURSE IS DESIGNED TO PROVIDE INSTRUCTION TO PREPARE STUDENTS AT THE MINIMUM LEVEL OF ACHIEVEMENT FOR OPERATOR CERTIFICATION RELATED TO OPERATIONAL CONTROL OF WATER TREATMENT PLANTS. THE COURSE IS DIVIDED INTO EIGHT MODULES. THESE MODULES ARE DIVIDED INTO LESSONS. EACH LESSON USUALLY CONTAINS A READING ASSIGNMENT, OBJECTIVES, DISCUSSION AND SELF-HELP QUESTIONS. WRITTEN ASSIGNMENTS ARE INCLUDED WITH SOME LESSONS. MODULES ARE: (1) INTRODUCTION; (2) BASIC SCIENCE AND MATH REVIEW; (3) DISINFECTION; (4) TREATMENT PROCESSES; (5) SAMPLING, TESTING, AND LABORATORY ANALYSIS; (6) EQUIPMENT: OPERATION, MAINTENANCE, AND INSPECTION; (7) RULES, REPORTS, RECORDS, AND PLANT ADMINISTRATION; AND (8) TROUBLESHOOTING.

AVAILABILITY: UNIVERSITY OF FLORIDA, DEPT OF INDEPENDENT STUDY BY CORRESPONDENCE, DIV OF CONT ED, 1223 NW 22ND AVE, GAINESVILLE, FL 32609.

IRIS ACCESSION NUMBER: EW015060

PUBLICATION DATE: DEC 87

TITLE: HAZARDOUS WASTES AND SLUDGE TREATMENT.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *HAZARDOUS MATERIALS; *SLUDGE DISPOSAL; *SLUDGE; *TECHNOLOGY; *WASTE DISPOSAL; *WASTE TREATMENT; *POLLUTION CONTROL; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40-50P.

ABSTRACT: DESCRIBED ARE ALTERNATIVE METHODS FOR TREATING AND DISPOSING OF HAZARDOUS WASTES AND SLUDGE. INCLUDED ARE INCINERATION, SELECTED INNOVATIVE TECHNOLOGIES, FIXATION AND SOLIDIFICATION, AND SLUDGE TREATMENT AND DISPOSAL.

AVAILABILITY: POLLUTION ENGINEERING; V19 N12

IRIS ACCESSION NUMBER: EW015061

PUBLICATION DATE: DEC 87

TITLE: PLASTIC BLAST MEDIA. AN ALTERNATIVE TO CHEMICAL STRIPPING.

PERSONAL AUTHOR: DUHNKRACK, GEORGE B.

DESCRIPTOR: *ALTERNATIVE TECHNOLOGY; *CLEANING; *COSTS; *METALS; *PERFORMANCE EVALUATION; *PLASTICS; *PLASTIC BLAST MEDIA; *TECHNOLOGY; *PLLLUTION CONTROL; *POLLUTION REDUCTION

DESCRIPTIVE NOTE: 54-57P.

ABSTRACT: DESCRIBED IS PLASTIC BLAST MEDIA (PBM) AS AN ALTERNATIVE TO CHEMICALS FOR STRIPPING AND CLEANING METALS AND PLASTICS. BENEFITS AND SOME OF THE PROBLEMS OF THE TECHNOLOGY ARE DESCRIBED.

AVAILABILITY: POLLUTION ENGINEERING; V19 N12

IRIS ACCESSION NUMBER: EW015062

PUBLICATION DATE: DEC 87

TITLE: USING A COMPUTERIZED SPREADSHEET. CALCULATING THE HEATING VALUE OF A WASTE.

PERSONAL AUTHOR: ROBBINS, REX M.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *COMPUTER APPLICATIONS; *FUEL; *ORGANIC WASTES; *HEATING VALUE; *SPREADSHEETS; *RESOURCE RECOVERY

DESCRIPTIVE NOTE: 58-60P.

ABSTRACT: THIS ARTICLE PRESENTS A TEMPLATE WHICH CALCULATES THE HEATING VALUE OF A FUEL OR ORGANIC WASTE.

AVAILABILITY: POLLUTION ENGINEERING; V19 N12

IRIS ACCESSION NUMBER: EW015063

PUBLICATION DATE: DEC 87

TITLE: GEOSTATISTIC DATABASES FOR HAZARDOUS WASTE ESTIMATION.

PERSONAL AUTHOR: ROBINSON, GEORGE; NAGAR, FRANK

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DECISION MAKING; *HAZARDOUS WASTES; *MINING; *LIABILITIES; *STATISTICS; *POLLUTION CONTROL; *ENVIRONMENTAL IMPACT; *WASTE DISPOSAL; *MANAGEMENT

DESCRIPTIVE NOTE: 62-65P.

ABSTRACT: DESCRIBED ARE STATISTICAL TOOLS AND USE OF DATA TO DETERMINE IF A MINING SITE PRESENTS A POTENTIAL HAZARDOUS WASTE LIABILITY.

AVAILABILITY: POLLUTION ENGINEERING; V19 N12

IRIS ACCESSION NUMBER: EW015064

PUBLICATION DATE: DEC 87

TITLE: COMPANY GETS THE LEAD OUT--AND MORE.

PERSONAL AUTHOR: HARTUP, G. ROBERT

DESCRIPTOR: *ACIDS; *BATTERIES; *INDUSTRIAL WASTES; *METALS; *OPERATIONS (WASTEWATER); *REGULATIONS; *WASTEWATER TREATMENT; *POLLUTION CONTROL; WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 66-67P.

ABSTRACT: DESCRIBED ARE THE WASTEWATER TREATMENT PROCESSES USED BY ACE BATTERY, INC., TO REMOVE MATERIALS (PRIMARILY METALS AND ACID) ACCUMULATED IN WASTEWATER AS A RESULT OF BREAKING BATTERIES.

AVAILABILITY: POLLUTION ENGINEERING; V19 N12

IRIS ACCESSION NUMBER: EW015066

PUBLICATION DATE: 87

TITLE: ENVIRONMENTAL FIELD SAMPLING MANUAL.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.; ANGANIELLO, BRUCE T.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *GUIDES; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *MONITORING; *EQUIPMENT; *SAMPLING; *POLLUTION CONTROL; *WASTES

DESCRIPTIVE NOTE: 135P. $19.95

ABSTRACT: THIS BOOK IS INTENDED TO ACT AS A GUIDE IN IMPLEMENTING SAMPLING AND MONITORING METHODOLOGY FOR ENVIRONMENTAL FIELD SAMPLING OF HAZARDOUS WASTES AND MATERIALS. SECTIONS ARE INCLUDED ON: (1) OVERVIEW; (2) INTRODUCTION TO SAMPLING; (3) PRE-SAMPLING PLAN; (4) SAMPLING EQUIPMENT AND PROCEDURES; (5) ANALYSIS DOCUMENTATION AND CHAIN-OF-CUSTODY PROCEDURES; AND (6) GUIDE TO ANALYTICAL METHODS.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015067

PUBLICATION DATE: 86

TITLE: HAZ PRO '86. PROCEEDINGS OF THE HAZ PRO '86 CONFERENCE.

PERSONAL AUTHOR: YOUNG, RICHARD A.

DESCRIPTOR: *MANAGEMENT; *HAZARDOUS WASTES; *HAZARDOUS MATERIALS; *HAZ PRO '86; *RISK ASSESSMENT; *TRAINING; *TOXIC SUBSTANCES; *WASTE DISPOSAL; *WASTE REDUCTION; *WASTE TREATMENT; *EMERGENCY RESPONSE; *WATER QUALITY; *PLANNING; *POLLUTION; *POLLUTION CONTROL; *STORAGE TANKS

DESCRIPTIVE NOTE: 671P.

ABSTRACT: THIS PUBLICATION CONTAINS MANY OF THE PAPERS PRESENTED AT HAZ PRO '86. THE PAPERS INCLUDED ARE THOSE SUBMITTED IN ADVANCE OF THE CONFERENCE. SECTIONS ARE INCLUDED ON THE FOLLOWING: (1) WASTE MINIMIZATION; (2) NEW DIRECTIONS IN AIR FILTRATION; (3) PERSONNEL TRAINING AND PEOPLE PROBLEMS; (4) TANKS FOR HAZARDOUS MATERIALS; (5) TOXIC AIR POLLUTANTS; (6) ASSESSING THE RISK; (7) DIAGNOSTICS OF FILTRATION AND DETOXIFICATION; (8) DEALING WITH DISPOSAL SITES; (9) CONSULTANT/ATTORNEY RELATIONSHIPS; (10) THE DANGERS OF DIVING IN UNKNOWN WATERS; (11) ENZYMATIC AND MICROBIAL DEGRADATION OF TOXIC MATERIALS; (12) HAZARDOUS MATERIALS/WASTE MANAGEMENT TRAINING; (13) WATER AND WASTEWATER; (14) LEAKING UNDERGROUND STORAGE TANKS; (15) TRAINING AND EDUCATION; (16) PLANNING TO PREVENT PROBLEMS; (17) RESPONDING TO EMERGENCIES; (18) TREATMENT, STORAGE, AND DISPOSAL FACILITIES; AND (19) SURFACE AND GROUND WATERS.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015068

PUBLICATION DATE: 87

TITLE: HAZARDOUS WASTE TREATMENT TECHNOLOGIES.

PERSONAL AUTHOR: RICH, GERALD; CHERRY, KENNETH

DESCRIPTOR: *CHEMICAL TREATMENT; *BIOLOGICAL TREATMENT;

*HAZARDOUS WASTES; *ENCAPSULATION; *PHYSICAL TREATMENT; *POLLUTION CONTROL; *TREATMENT TECHNOLOGY; *TECHNOLOGY; *THERMAL TREATMENT; *WASTE TREATMENT; *WASTES

DESCRIPTIVE NOTE: 177P. $19.95

ABSTRACT: THIS PUBLICATION PROVIDES A BRIEF DESCRIPTION OF SEVERAL HAZARDOUS WASTES TREATMENT TECHNOLOGIES. SECTIONS INCLUDED ARE: (1) INTRODUCTION TO HAZARDOUS WASTE TREATMENT TECHNOLOGIES; (2) PHYSICAL PROCESS; (3) PRECIPITATION, COAGULATION, AND FLOCCULATION; (4) SURFACE PHENOMENON; (5) MEMBRANES; (6) EXTRACTION; (7) CHEMICAL METHODS; (8) BIOLOGICAL METHODS; (9) THERMAL PROCESSES; (10) SOLIDIFICATION METHODS; (11) SOIL DETOXIFICATION METHODS; AND (12) TREATABILITY. A LIMITED BIBLIOGRAPHY IS INCLUDED.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015069

PUBLICATION DATE: 87

TITLE: A PRACTICAL GUIDE TO EMERGENCY RESPONSE PLANNING.

PERSONAL AUTHOR: NEWTON, JIM

DESCRIPTOR: *EMERGENCY PLANS; *EMERGENCY RESPONSE; HAZARDOUS MATERIALS; *HAZARD ANALYSIS; TOXIC SUBSTANCES; *PLANNING; *TRAINING; *PROGRAM EVALUATION; *FACILITY PLANS; *COMMUNITY PLANS; AIR POLLUTION; WATER POLLUTION; SPILLS; FIRES

DESCRIPTIVE NOTE: 168P.

ABSTRACT: THIS PUBLICATION IS DESIGNED TO SERVE AS A PRACTICAL HANDBOOK FOR PLANNING RESPONSES TO EMERGENCIES DUE TO FACILITY PROBLEMS OR COMMUNITY PROBLEMS. SECTIONS IN THE DOCUMENT INCLUDE: (1) FACILITY EMERGENCY RESPONSE PLANS; (2) COMMUNITY EMERGENCY PLANS; AND (3) BEYOND PLANNING (PLAN EVALUATION AND REVIEW, TRAINING, EXERCISES AND DRILLS). A BIBLIOGRAPHY IS ALSO INCLUDED.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015070

PUBLICATION DATE: 88

TITLE: INDUSTRIAL ODOR CONTROL POCKET HANDBOOK.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *ACTIVATED CARBON; *CHEMICAL CONTROL; *INCINERATION; *HANDBOOKS; *INDUSTRY; *ODORS; *ODOR CONTROL; *SEWAGE; *WASTEWATER TREATMENT; *TECHNOLOGY; *SOLID WASTES; *WET SCRUBBING

DESCRIPTIVE NOTE: 331P.

ABSTRACT: THIS PUBLICATION IS DESIGNED TO PROVIDE A PRACTICAL UNDERSTANDING OF ODORS AND THE CONTROL OF INDUSTRIAL ODORS. THE BOOK STRESSES PRACTICAL ENGINEERING AND INDUSTRIAL CHEMISTRY. SECTIONS ARE INCLUDED ON: (1) ODORS - RESPONSE AND EFFECTS; (2) THRESHOLD OF SMELL AND MEASUREMENT; (3) ODOR QUANTIFICATION; (4) INDUSTRIAL SOURCES AND ODOR CONTROL PROBLEMS AND PRACTICES; (5) SEWAGE AND REFUGE ODOR CONTROL; (6) ODOR CONTROL METHODS AND PROCESS REVIEW; (7) ODOR CONTROL BY COMBUSTION; (8) WET SCRUBBING FOR ODOR CONTROL; (9) ADSORPTION WITH ACTIVATED CARBON; AND (10) REACTIVE CHEMICALS FOR ODOR CONTROL.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015071

PUBLICATION DATE: 87

TITLE: HOW TO REVIEW A PART B PERMIT.

PERSONAL AUTHOR: RICH, GERALD

DESCRIPTOR: *STORAGE FACILITIES; *FACILITIES; *INSPECTION; *MONITORING; *PERMITS; *REGULATIONS; *RECORDKEEPING; *HAZARD PREVENTION; *TRAINING; *USEPA; *WASTE ANALYSIS

DESCRIPTIVE NOTE: 148P. $19.95

ABSTRACT: THIS BOOK PRESENTS A CHECKLIST OF INFORMATION NEEDED TO REVIEW THE COMPLETENESS OF A PART B PERMIT APPLICATION. THIS CHECKLIST IS INTENDED TO HELP PERMIT APPLICANTS TO MAKE SURE THE APPLICATION CONTAINS THE NECESSARY INFORMATION AS WELL AS ASSISTING AGENCY PERMIT WRITERS TO REVIEW PERMIT APPLICATIONS MORE EXPEDITIOUSLY AND UNIFORMLY. SECTIONS INCLUDED ARE: (1) GENERAL GUIDELINES; (2) FACILITY DESCRIPTION; (3) WASTE CHARACTERISTICS; (4) PROCESS INFORMATION; (5) GROUNDWATER MONITORING; (6) PROCEDURES TO PREVENT HAZARDS; (7) CONTINGENCY PLANS; (8) PERSONNEL TRAINING; (9) CLOSURE AND POST-CLOSURE REQUIREMENTS; (10) OTHER FEDERAL LAWS; (11) PART B CERTIFICATION; (12) CONTINUING RELEASES AT PERMITTED FACILITIES; AND (13) RESEARCH, DEVELOPMENT, AND DEMONSTRATION.

AVAILABILITY: PUDVAN PUBLISHING COMPANY, 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015072

PUBLICATION DATE: 87

TITLE: HAZTECH INTERNATIONAL. CONFERENCE PROCEEDINGS. ST. LOUIS, MISSOURI. AUGUST 26-28, 1987.

PERSONAL AUTHOR: YOUNG, RICHARD A.

DESCRIPTOR: AIR POLLUTION CONTROL; COMPLIANCE; COSTS; EMERGENCY RESPONSE; *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; INCINERATION; *MANAGEMENT; REGULATIONS; *TECHNOLOGY; *TOXIC SUBSTANCES; TRAINING; TRANSPORTATION; *WASTE DISPOSAL; *TREATMENT TECHNIQUES; *CONFERENCE PROCEEDINGS; WASTE STORAGE; WATER POLLUTION CONTROL; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 596P.

ABSTRACT: THIS PUBLICATION CONTAINS PAPERS PRESENTED AT THE HAZTECH INTERNATIONAL CONFERENCE IN 1987. ONLY PAPERS THAT WERE PROVIDED IN ADVANCE ARE INCLUDED. THE PAPERS IN THIS PROCEEDINGS COVER MOST ASPECTS RELATED TO HAZARDOUS MATERIALS MANAGEMENT. FORTY-SIX PAPERS ARE INCLUDED. THE PAPERS ARE NOT CATEGORIZED BY TOPIC.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015073

PUBLICATION DATE: 87

TITLE: WASTEWATER TREATMENT. POCKET HANDBOOK.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL N.

DESCRIPTOR: *BIOLOGICAL PROCESSES; *EQUIPMENT; *FILTRATION; *INORGANIC NUTRIENTS; *OIL SEPARATION; *OPERATIONS (WASTEWATER); *UNIT OPERATIONS; *SOLIDS REMOVAL; *DISSOLVED ORGANICS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 357P.

ABSTRACT: THIS PUBLICATION IS DESIGNED TO SERVE AS A RAPID AND READY REFERENCE FOR THE POLLUTION ENGINEER. THE PUBLICATION DEALS SPECIFICALLY WITH WASTEWATER TREATMENT AND ITS MOST IMPORTANT UNIT OPERATIONS AND PROCESSES. SECTIONS ARE INCLUDED ON: (1) GENERAL TREATMENT CONSIDERATIONS; (2) SUSPENDED SOLIDS REMOVAL; (3) FILTRATION EQUIPMENT; (4) OIL-WASTE SEPARATION TECHNIQUES; (5) REMOVAL METHODS FOR INORGANIC NUTRIENTS; (6) BIOLOGICAL PROCESSES; AND (7) REMOVAL OF DISSOLVED ORGANICS AND INORGANICS.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015074

PUBLICATION DATE: 87

TITLE: WASTE INCINERATION POCKET HANDBOOK.

PERSONAL AUTHOR: CHEREMISINOFF, PAUL

DESCRIPTOR: AIR POLLUTION CONTROL; *GUIDES; COMBUSTION PRINCIPLES; EQUIPMENT; *INCINERATION; *TECHNOLOGY; FLARE GAS CONTROL; WASTES; *WASTE COMBUSTION; *WASTE TREATMENT; DESIGN

DESCRIPTIVE NOTE: 212P.

ABSTRACT: THIS BOOK IS INTENDED TO BE A POCKET GUIDE TO WASTE INCINERATION FOR POLLUTION CONTROL ENGINEERS AND

MANAGERS. INCLUDED ARE BASIC CONCEPTS AND DATA ON WASTES COMBUSTION, AND AN OVERVIEW OF PROCESS TECHNOLOGIES IN THE MARKET PLACE. SECTIONS ARE INCLUDED ON: (1) COMBUSTION PRINCIPLES; (2) PARTICULATE CAPTURE; (3) INCINERATION TYPES; (4) DESIGN ASPECTS; (5) INCINERATION AND THERMAL TREATMENT TECHNOLOGY; AND (6) FLARE GAS CONTROL.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015075

PUBLICATION DATE: 87

TITLE: PROCEEDINGS OF INTERNATIONAL CONGRESS ON HAZARDOUS MATERIALS MANAGEMENT.

DESCRIPTOR: *AIR POLLUTION CONTROL; *CONFERENCE PROCEEDINGS; *HAZARDOUS MATERIALS; *HIGHER EDUCATION; *MANAGEMENT; *TRAINING; *TECHNOLOGY; *TOXIC SUBSTANCES; *TRANSPORTATION; *WASTE DISPOSAL; *WASTE STORAGE; *WASTE TREATMENT; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 934P.

ABSTRACT: THIS PUBLICATION CONTAINS PAPERS PRESENTED AT THE INTERNATIONAL CONGRESS ON HAZARDOUS MATERIALS MANAGEMENT AT CHATTANOOGA, TN IN JUNE, 1987. PAPERS RECEIVED IN ADVANCE OF THE CONFERENCE ARE INCLUDED. PAPERS PRESENTED ARE CATEGORIZED INTO THE FOLLOWING SECTIONS: (1) EMERGING TECHNOLOGIES IN THE TREATMENT OF HAZARDOUS MATERIALS; (2) MODELING, MONITORING, AND PROTECTION OF GROUNDWATER; (3) LIABILITY AND RISK MANAGEMENT; (4) TECHNOLOGIES FOR PREVENTION, MINIMIZATION, AND DESTRUCTION; (5) ENVIRONMENTAL DATA MANAGEMENT; (6) TOXIC AND HAZARDOUS AIR POLLUTANTS; (7) THE ROLE OF UNIVERSITIES IN TRAINING AND RESEARCH; (8) TRAINING AND HAZARD COMMUNICATION; (9) INNOVATIVE APPROACHES TO RESEARCH; (10) ENVIRONMENTAL AUDITING; (11) SELECTING A TRANSPORTER; AND (12) CONTINGENCY PLANNING AND EMERGENCY RESPONSE.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015076

PUBLICATION DATE: 86

TITLE: EPA SURVIVAL MANUAL.

PERSONAL AUTHOR: RICH, GERALD; AND OTHERS

DESCRIPTOR: *AIR POLLUTION CONTROL; *ENVIRONMENTAL AUDITS; *HAZARDOUS WASTES; *INSPECTION; *PERMITS; *MANAGEMENT; *REGULATIONS; *SOLID WASTES; *WATER QUALITY; *WASTEWATER; *COMPLIANCE; *USEPA

DESCRIPTIVE NOTE: 184P. $19.95

ABSTRACT: THIS BOOK PROVIDES PLANT PERSONNEL WITH A GUIDE CONCERNING WHAT USEPA GENERALLY EXPECTS IN PERMITS APPLICATIONS, PROCESS CHANGES, MALFUNCTIONS, AND NON-COMPLIANCE SITUATIONS. SECTIONS ARE INCLUDED ON: (1) REASONS FOR REGULATORY INSPECTIONS; (2) INSPECTION VIEWPOINTS; (3) ENVIRONMENTAL PROGRAM MANAGEMENT; (4) AIR; (5) WASTEWATER; (6) SOLID AND HAZARDOUS WASTES; (7) THE DETERIORATING SYSTEM; AND (8) ENVIRONMENTAL AUDIT.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015077

PUBLICATION DATE: 85

TITLE: POLLUTION CONTROL ENGINEER'S HANDBOOK.

PERSONAL AUTHOR: SHIELDS, EDWARD J.

DESCRIPTOR: *AIR POLLUTION CONTROL; *DATA; *GROUNDWATER; *HANDBOOKS; *HAZARDOUS WASTES; *HAZARDOUS MATERIALS; *INFORMATION SOURCES; *POLLUTION CONTROL; *SOLID WASTES; *STANDARDS; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 144P. $19.95

ABSTRACT: THIS PUBLICATION IS A COMPILATION OF SELECTED DATA AND INFORMATION THAT HAVE BEEN FOUND TO BE USEFUL FOR A PERSON WORKING WITH ENVIRONMENTAL CONCERNS RELATED TO AIR, WATER, GROUNDWATER AND SOLID WASTES. SECTIONS ARE INCLUDED ON THE FOLLOWING TOPICS: (1) PRIORITY POLLUTANTS; (2) HAZARDOUS WASTES; (3) ORGANIC CHEMICALS; (4) NATIONAL AMBIENT AIR QUALITY STANDARDS; (5) NATIONAL EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS; (6) TOXIC AIR POLLUTANTS; (7) PREVENTION OF SIGNIFICANT DETERIORATION; (8) NEUTRALIZATION AGENTS; (9) CHEMICAL ELEMENTS; (10) PCBS; (11) PESTICIDES/HERBICIDES; (12) WATER QUALITY CRITERIA; (13) HAZARDOUS SUBSTANCES; (14) SYNTHETIC LINERS; (15) COST ESTIMATES; (16) VOLATILE ORGANIC CHEMICALS; (17) GLOSSARY AND (18) TABLE OF CONVERSION FACTORS.

AVAILABILITY: PUDVAN PUBLISHING CO., 1935 SHERMER ROAD, NORTHBROOK, IL 60062

IRIS ACCESSION NUMBER: EW015078

PUBLICATION DATE: 86

TITLE: TRANSPORTATION: DANGER ON THE ROAD.

PERSONAL AUTHOR: PETERSON, SYBIL; AND OTHERS

DESCRIPTOR: *ACCIDENT PREVENTION; *COMPLIANCE; *HAZARDOUS MATERIALS; *EMERGENCY RESPONSE; *PUBLIC SAFETY; *REGULATIONS; *CASE STUDIES; *TRANSPORTATION

DESCRIPTIVE NOTE: 45P. $7.95

ABSTRACT: THIS PUBLICATION OUTLINES PROBLEMS RELATED TO THE TRANSPORTATION OF HAZARDOUS MATERIALS, WHAT IS BEING DONE

ABOUT THEM, AND WHAT CAN BE DONE. SECTIONS INCLUDED ARE: (1) HISTORY: WHAT HAS BEEN DONE; (2) PROBLEMS; (3) WHAT LOCALITIES CAN DO; (4) REGULATORY GAPS; (5) WHAT CAN YOU DO?; (6) CASE STUDY; (7) MODEL LOCAL ORDINANCE; AND (8) TABLES.

AVAILABILITY: CITIZEN'S CLEARINGHOUSE FOR HAZARDOUS WASTES, INC., POST OFFICE BOX 926, ARLINGTON, VA 22216

IRIS ACCESSION NUMBER: EW015079

PUBLICATION DATE: 87

TITLE: DRINKING-WATER QUALITY AND HEALTH-RELATED RISKS. A FRAMEWORK FOR DEVELOPING DATA RELIABILITY. #21.

DESCRIPTOR: *ANALYTICAL TECHNIQUES; *DRINKING WATER; *GUIDELINES; *MONITORING; *SAMPLING; STANDARDS; LABORATORY PROCEDURES; *RISK ASSESSMENT; EUROPE; *PUBLIC HEALTH; *WORLD PROBLEMS; *WATER QUALITY; *WATER TREATMENT

DESCRIPTIVE NOTE: 39P.

ABSTRACT: THIS DOCUMENT PRESENTS AND CONSIDERS DRINKING-WATER MONITORING AND HEALTH-RELATED RISKS FROM THE PERSPECTIVES OF SEVERAL COUNTRIES. INCLUDED IN THE PUBLICATION ARE SECTIONS ON: (1) GUIDELINE VALUES RECOMMENDED; (2) COUNTRY STANDARDS; (3) MANAGEMENT OF DRINKING-WATER QUALITY; (5) SAMPLING; (6) WATER ANALYSIS; (7) REMOVAL OF DELETERIOUS SUBSTANCES FROM POTABLE WATER; AND (8) TRENDS.

AVAILABILITY: WORLD HEALTH ORGANIZATION, REGIONAL OFFICE FOR EUROPE, ENVIRONMENTAL HEALTH SERVICE, SCHERFIGSVEJ 8, DK-2100, COPENHAGEN, DENMARK

IRIS ACCESSION NUMBER: EW015081

PUBLICATION DATE: SEPT 86

TITLE: INTERWATER: DIRECTORY OF SOURCES OF INFORMATION AND DOCUMENTATION ON COMMUNITY WATER SUPPLY AND SANITATION. 2ND REVISED EDITION.

DESCRIPTOR: *DIRECTORIES; *INFORMATION SOURCES; *OPERATIONS (WATER); *OPERATIONS (WASTEWATER); *MANAGEMENT; *PLANNING; *NETWORKS; *PUBLIC HEALTH; *SANITATION; *WASTEWATER TREATMENT; *WATER TREATMENT; *WATER POLLUTION CONTROL; *WORLD PROBLEMS; *WATER QUALITY

DESCRIPTIVE NOTE: 308P. FOR RELATED DOCUMENT SEE EW 012 070.

ABSTRACT: THIS DIRECTORY LISTS ORGANIZATIONS WILLING AND ABLE TO SUPPLY INFORMATION ON COMMUNITY WATER SUPPLY AND SANITATION TO FACILITATE INFORMATION EXCHANGE IN DEVELOPING COUNTRIES. IT UPDATES A PREVIOUS PUBLICATION PREPARED IN 1983. THE DIRECTORY INCLUDES MORE THAN 255 ENTRIES ARRANGED BY COUNTRY. ORGANIZATIONS ARE LISTED FOR AFRICA, EUROPE, NORTH AMERICA, LATIN AMERICA, ASIA AND THE PACIFIC, AND THE MIDDLE EAST. EACH ENTRY CONTAINS INFORMATION ABOUT EACH ORGANIZATION. LISTS OF INSTITUTIONS IN ALPHABETICAL ORDER AND A SUBJECT INDEX ARE INCLUDED.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER FOR COMMUNITY WATER SUPPLY AND SANITATION, IRC P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015083

PUBLICATION DATE: DEC 84

TITLE: DEVELOPING AND USING AUDIO-VISUAL MATERIALS IN WATER SUPPLY AND SANITATION PROGRAMS. WASH TECHNICAL REPORT NO. 30.

PERSONAL AUTHOR: KARLIN, BARRY; ISELY, RAYMOND B.

DESCRIPTOR: *AUDIOVISUAL AIDS; *INSTRUCTIONAL MATERIALS; *MATERIAL DEVELOPMENT; *INSTRUCTION; *SANITATION; *POSTSECONDARY EDUCATION; *WATER SUPPLY; *WATER TREATMENT; *WASTEWATER TREATMENT; *NEEDS ASSESSMENT; *PLANNING; *TRAINING

DESCRIPTIVE NOTE: 238P.

ABSTRACT: THIS PUBLICATION RESULTED FROM A SURVEY OF ABOUT 140 CENTERS IN DEVELOPING COUNTRIES PRODUCING AUDIO-VISUAL AIDS MATERIALS RELATED TO WATER SUPPLY AND SANITATION. ABOUT 100 CENTERS RESPONDED AND THE RESPONSE OF 54 ARE REVIEWED IN THE REPORT. ORGANIZATIONS INCLUDE GOVERNMENT UNITS, INTERNATIONAL AGENCIES, RELIGIOUS AND OTHER PRIVATE VOLUNTARY AGENCIES, UNIVERSITIES, AND RESEARCH INSTITUTES. THE PUBLICATION INCLUDES THE FOLLOWING SECTIONS: (1) INTRODUCTION; (2) A CONCEPTUAL FRAMEWORK FOR USING AUDIO-VISUAL AIDS IN WATER SUPPLY AND SANITATION PROGRAMS; (3) DESIGNING MATERIALS: DATA NEEDED AND HOW TO COLLECT AND INTERPRET IT; (4) PRETESTING; (5) TRAINING THE DESIGNERS AND USERS OF AUDIO-VISUAL AIDS; (6) PRODUCING MATERIALS; AND (7) CONCLUSION.

AVAILABILITY: WASH, 1611 N. KENT STREET, ROOM 1002, ARLINGTON, VA 22209

IRIS ACCESSION NUMBER: EW015085

PUBLICATION DATE: 87

TITLE: ARTIFICIAL GROUNDWATER RECHARGE FOR WATER: SUPPLY OF MEDIUM-SIZE COMMUNITIES IN DEVELOPING COUNTRIES.

PERSONAL AUTHOR: HOFKES, E.H.; VISSCHER, J.T.

DESCRIPTOR: *DEVELOPING COUNTRIES; *GROUNDWATER; *GROUNDWATER RECHARGE; *OPERATIONS (WATER); *RURAL AREAS; *WATER SUPPLY; *WATER RESOURCES

DESCRIPTIVE NOTE: 42P.

ABSTRACT: THIS STUDY AIMS TO PROVIDE PLANNERS AND ENGINEERS

WITH PRACTICAL INFORMATION TO ASSESS THE POTENTIAL FOR APPLICATION OF ARTIFICIAL GROUNDWATER RECHARGE SCHEMES IN RURAL WATER SUPPLY. CARRIED OUT WITH FINANCIAL SUPPORT OF THE NETHERLANDS' MINISTRY OF HOUSING, PHYSICAL PLANNING, AND ENVIRONMENT, IT DESCRIBES BASIC TECHNICAL ASPECTS, PLANNING AND ORGANIZATIONAL ASPECTS, TYPES, BASIC DESIGN, FIELD EXPERIENCE AND COSTS OF ARTIFICIAL RECHARGE SYSTEMS.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER, P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015086

PUBLICATION DATE: 87

TITLE: WHAT PRICE WATER? USER PARTICIPATION IN PAYING FOR COMMUNITY-BASED WATER SUPPLY.

PERSONAL AUTHOR: VAN WIJK-SIJBESMA, CHRISTINE

DESCRIPTOR: *ADMINISTRATION; *COSTS; *COST RECOVERY; *ECONOMICS; *MANAGEMENT; OPERATIONS (WATER); RATES; *WATER RATES; *WATER SUPPLY

DESCRIPTIVE NOTE: 92P.

ABSTRACT: THIS PUBLICATION HAS THE CHARACTER OF A CATALOGUE OF COMMUNITY FINANCING SYSTEMS: WHAT MECHANISM FOR COST-RECOVERY ARE AVAILABLE, UNDER WHAT CIRCUMSTANCES COULD THEY BE APPLIED AND WHAT ARE THEIR ADVANTAGES AND DISADVANTAGES. IT PROVIDES A SET OF PRACTICAL GUIDELINES FOR PROJECT STAFF AND POLICY-ADVISORS INVOLVED IN THIS INCREASINGLY IMPORTANT AREA.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER, P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015087

PUBLICATION DATE: 86

TITLE: DRINKING WATER SUPPLY AND SANITATION: CO-OPERATION BETWEEN COMMUNITIES AND AGENCIES.

PERSONAL AUTHOR: FRITSCHI, BEP

DESCRIPTOR: *COMMUNITY COOPERATION; *DRINKING WATER; *AGENCY COOPERATION; *COOPERATIVE ACTIVITIES; *SANITATION; *WATER RESOURCES; *WATER SUPPLY; *WATER QUALITY; *WATER TREATMENT; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 40P.

ABSTRACT: THIS PUBLICATION EMPHASIZES THE IMPORTANCE OF ADEQUATE AND CLEARLY DEFINED COOPERATION BETWEEN THE PARTIES INVOLVED IN DEVELOPMENT OF COMMUNITY WATER SUPPLY AND SANITATION.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER, P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015088

PUBLICATION DATE: 87

TITLE: MAINTENANCE SYSTEMS FOR RURAL WATER SUPPLIES.

PERSONAL AUTHOR: BASTEMEYER, T.F.; VISSCHER, J.T.

DESCRIPTOR: *APPROPRIATE TECHNOLOGY; *DRINKING WATER; *MAINTENANCE SYSTEMS; *OPERATIONS (WATER); *RURAL AREAS; *WATER SUPPLY; *WATER TREATMENT

DESCRIPTIVE NOTE: 46P.

ABSTRACT: THIS REVIEW OF EXISTING EXPERIENCE AND LITERATURE ON MAINTENANCE OF RURAL WATER SUPPLY SYSTEMS DESCRIBES CURRENT THINKING ON THIS KEY ISSUE WHICH SOFAR HAS BEEN THE MAJOR BOTTLENECK FOR LONG-TERM WATER SUPPLY. THE SECTION FOR RESEARCH AND APPROPRIATE TECHNOLOGY OF THE NETHERLANDS' MINISTRY OF FOREIGN AFFAIRS FINANCIALLY SUPPORTED PREPARATION OF THIS STUDY. IT DESCRIBES FACTORS AFFECTING MAINTENANCE IN DONOR SUPPORTED PROGRAMMES, KEY ASPECTS TO DEVELOP SUITABLE MAINTENANCE SYSTEMS. PROVIDES A CHECKLIST FOR PROJECT PREPARATION AND ASSESSMENT.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER, P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015089

PUBLICATION DATE: 78

TITLE: SLOW SAND FILTRATION FOR COMMUNITY WATER SUPPLY IN DEVELOPING COUNTRIES.

PERSONAL AUTHOR: HARTONG, H.J.H.

DESCRIPTOR: *BIBLIOGRAPHIES; *DEVELOPING COUNTRIES; *FILTRATION; *OPERATIONS (WATER); *SAND FILTRATION; *WATER TREATMENT

DESCRIPTIVE NOTE: 61P.

ABSTRACT: THIS BIBLIOGRAPHY LISTS 79 SELECTED PUBLICATIONS WRITTEN ON THE SUBJECT OF SLOW SAND FILTRATION FOR COMMUNITY WATER SUPPLY IN DEVELOPING COUNTRIES. THE PUBLICATIONS ARE ANNOTATED AND PROVIDED WITH KEYWORDS. AN AUTHOR AND KEYWORK INDEX AS WELL AS LIST INSTITUTIONS AND ORGANIZATIONS THAT CAN GIVE FURTHER INFORMATION ON THE SUBJECT ARE ADDED TO THIS BIBLIOGRAPHY.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER, P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015090

PUBLICATION DATE: 85

TITLE: MANUAL FOR CARETAKERS OF SLOW SAND FILTRATION.

PERSONAL AUTHOR: VISSCHER, J.T.; VEENSTRA, S.

DESCRIPTOR: *FILTRATION; *OPERATIONS (WATER); *SAND FILTRATION; *WATER TREATMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 73P.

ABSTRACT: THIS REVISION OF AN EARLIER PAPER AIMS TO PROVIDE CARETAKERS OF SLOW SAND FILTRATION PLANTS AND THEIR TRAINERS WITH RELEVANT INFORMATION. STEP-BY-STEP TECHNICAL ASPECTS, THE SLOW SAND FILTRATION PROCESS, COMMUNITY INVOLVEMENT, OPERATION AND MAINTENANCE, CLEANING AND RESANDING, RECORD KEEPING ARE TREATED WITH DRAWINGS AND LIMITED TEXT.

AVAILABILITY: INTERNATIONAL REFERENCE CENTER, P.O. BOX 93190, 2509 AD THE HAGUE, THE NETHERLANDS

IRIS ACCESSION NUMBER: EW015093

PUBLICATION DATE: 87

TITLE: THE GREAT LAKES. AN ENVIRONMENTAL ATLAS AND RESOURCE BOOK.

PERSONAL AUTHOR: BOTTS, LEE; KRUSHELNICKI, BRUCE

DESCRIPTOR: *ATLASES; *GREAT LAKES; *ECOLOGY; *ENVIRONMENT; *GEOLOGY; *HISTORY; *INTERNATIONAL PROGRAMS; *WATER RESOURCES; *WATER QUALITY; *WATER POLLUTION CONTROL

DESCRIPTIVE NOTE: 49P. ISBN-0-662-15189-5

ABSTRACT: THIS ATLAS WAS DEVELOPED JOINTLY BY THE CANADIAN AND AMERICAN GOVERNMENTS, AND IS INTENDED TO PROVIDE AN ECOSYSTEM APPROACH TO THE UNDERSTANDING OF THE GREAT LAKES BASIN. CHAPTER ONE PROVIDES AN INTRODUCTION TO BOTH THE NATURAL AND CULTURAL ASPECTS OF THE GREAT LAKES. CHAPTER TWO, "NATURAL PROCESSES IN THE GREAT LAKES", DESCRIBES SUCH FACTORS AS GEOLOGY, CLIMATE, SURFACE RUNOFF, GROUNDWATER, WETLANDS, LAKE LEVELS, LAKE PROCESSES (SUCH AS STRATIFICATION AND TURNOVER), AND LIVING RESOURCES. CHAPTER THREE, "PEOPLE AND THE GREAT LAKES", TRACES THE EARLIEST SETTLERS THAT FIRST BEGAN TO FISH, FARM, AND DEFOREST THE BASIN, AND WHOSE DECENDANTS SPAWNED THE MASSIVE URBAN AND INDUSTRIAL GROWTH OF TODAY. CHAPTER FOUR EXPLORES THE CONCERNS MANY HAVE ABOUT THE GREAT LAKES TODAY, INCLUDENG THE EFFECTS OF EUTROPHICATION, PATHOGENS, TOXICS, BIOMAGNIFICATION, AND OTHER POLLUTING FACTORS. CHAPTER FIVE EXAMINES SOME OF THE WAYS THAT GOVERNMENTS HAVE SOUGHT TO RESPOND TO MANY OF THE DIFFICULTIES FACING THE LAKES, AND CHAPTER SIX DISCUSSES SOME OF THE FUTURE SCENARIOS OF THE GREAT LAKES. INCLUDED IS A GLOSSARY, A METRIC CONVERSION CHART, REFERENCES AND SUGGESTIONS FOR FURTHER READING, AND NUMEROUS MAPS, FIGURES, AND FACT SHEETS.

AVAILABILITY: GREAT LAKES NATIONAL PROGRAM OFFICE, U.S. ENVIRONMENTAL PROTECTION AGENCY, 230 S. DEARBORN ST., CHICAGO, IL 60604

IRIS ACCESSION NUMBER: EW015094

PUBLICATION DATE: 87

TITLE: DRAINAGE DESIGN AND MANAGEMENT. PROCEEDINGS OF THE FIFTH NATIONAL DRAINAGE SYMPOSIUM, DECEMBER 1987, CHICAGO, IL.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *DRAINAGE; *DESIGN; *MANAGEMENT; *SOIL; *WATER MANAGEMENT; *WATER QUALITY

DESCRIPTIVE NOTE: 440P. $43.00, $34.00 - ASAE MEMBER

ABSTRACT: THIS IS THE PROCEEDINGS OF THE FIFTH NATIONAL DRAINAGE SYMPOSIUM. FORTY-EIGHT PAPERS ARE GROUPED INTO THE FOLLOWING CATEGORIES: (1) DRAINAGE DESIGN; (2) WATER MOVEMENT THROUGH SOIL; (3) CROP RESPONSE TO WATER MANAGEMENT; (4) DRAINAGE IMPACT ON WATER QUALITY; (5) DRAINAGE/IRRIGATION CONTROL, MANAGEMENT, AND EVALUATION; (6) EVALUATING WATER MANAGEMENT EFFECTS, PRACTICES, AND INSTALLATIONS; (7) LIMITATIONS, PERFORMANCE, AND MACHINERY DEVELOPMENT FOR MOLE DRAINAGE; AND (8) DRAINAGE ENVELOPE INVESTIGATIONS AND SPECIFICATIONS.

AVAILABILITY: ASAE, DEPT. 4412, 2950 NILES ROAD, ST. JOSEPH, MI 49085-9659

IRIS ACCESSION NUMBER: EW015098

PUBLICATION DATE: NOV 87

TITLE: EVALUATING THE ENVIRONMENTAL HEALTH WORK FORCE.

PERSONAL AUTHOR: STERN, BARRY S.

DESCRIPTOR: *CONFERENCES; *ENVIRONMENTAL HEALTH; *FEDERAL PROGRAMS; *FEDERAL ROLE; *PERSONNEL; *PUBLIC HEALTH; *TRAINING; *WORKSHOPS

DESCRIPTIVE NOTE: 137-141P.

ABSTRACT: PROVIDES AN OVERVIEW OF THE PAST, PRESENT AND FUTURE ENVIRONMENTAL HEALTH ACTIVITIES OF THE BUREAU OF HEALTH PROFESSIONS, UNITED STATES DEPARTMENT OF HEALTH AND HUMAN SERVICES. CONTAINS A SUMMARY OF WORKSHOPS, CONFERENCES, AND MONOGRAPHS FUNDED BY THE BUREAU AND OTHERS CHARACTERIZING THE ENVIRONMENTAL HEALTH WORK FORCE FROM 1975-1986.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH, V50 N3

IRIS ACCESSION NUMBER: EW015099

PUBLICATION DATE: NOV 87

TITLE: AN OVERVIEW OF...THE POTENTIAL FOR LOCAL GOVERNMENT HAZARDOUS MATERIAL MANAGEMENT PROGRAMS.

PERSONAL AUTHOR: SILVERMAN, GARY S.; JACKSON, KATE

DESCRIPTOR: *EMERGENCY RESPONSE; *HAZARDOUS MATERIALS; *GOVERNMENT ROLE; *LOCAL GOVERNMENTS; *MANAGEMENT; *PLANNING; *ENFORCEMENT; *REGULATIONS; *PUBLIC HEALTH; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 157-160P.

ABSTRACT: LOCAL GOVERNMENTS HAVE OUTSTANDING OPPORTUNITIES TO PROMOTE EFFECTIVE MANAGEMENT OF HAZARDOUS MATERIALS. THESE OPPORTUNITIES ENCOMPASS TRADITIONAL ACTIVITIES, SUCH AS SITING AND EMERGENCY RESPONSE, BUT ALSO CAN INCLUDE INVOLVEMENT WITH PROGRAMS TYPICALLY ASSOCIATED WITH STATE AND FEDERAL AGENCIES. THE ROLE OF LOCAL GOVERNMENT IS EVOLVING AS AWARENESS OF THE POTENTIAL EFFECTIVENESS OF LOCAL PROGRAMS GROWS.

AVAILABILITY: JOURNAL OF ENVIRONMENTAL HEALTH; V50 N3

IRIS ACCESSION NUMBER: EW015100

PUBLICATION DATE: JAN 88

TITLE: COMPUTER STATISTICS FOR ENVIRONMENTAL ENGINEERS.

PERSONAL AUTHOR: CHEREMISINOFF, NICHOLAS P.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COMPUTER SOFTWARE; *ENVIRONMENT; *ENGINEERING; *LABORATORY PROCEDURES; *LABORATORY TECHNIQUES; *STATISTICAL ANALYSIS; *SPREADSHEETS; *QUALITY CONTROL; *REGRESSION ANALYSIS

DESCRIPTIVE NOTE: 54-62P.

ABSTRACT: OUTLINED ARE SIMPLIFIED PROCEDURES FOR ADAPTING PC SPREADSHEET PROGRAMS TO PROVIDE STATISTICAL REGRESSION CAPABILITIES AND STATISTICAL QUALITY CONTROL IN ENVIRONMENTAL LABORATORY PRACTICES. EXAMPLES ARE GIVEN FOR LOTUS 1-2-3.

AVAILABILITY: POLLUTION ENGINEERING; V20 N1

IRIS ACCESSION NUMBER: EW015118

PUBLICATION DATE: 87

TITLE: TOXIC AND HAZARDOUS WASTES: PROCEEDINGS OF THE 19TH MID-ATLANTIC WASTE CONFERENCE, JUNE 21-23, 1987.

PERSONAL AUTHOR: EVANS, JEFFREY C.

DESCRIPTOR: *CONFERENCE PROCEEDINGS; *GROUNDWATER; *HAZARDOUS WASTES; *POLLUTION CONTROL; *REGULATIONS; *STORAGE TANKS; *TOXIC SUBSTANCES; *TREATMENT TECHNIQUES; *WATER QUALITY; *WASTE STORAGE; *RESEARCH REPORTS

DESCRIPTIVE NOTE: 729P. $65.00 SOFTCOVER

ABSTRACT: THIS BOOK IS THE PROCEEDINGS OF THE 19TH MID-ATLANTIC WASTE CONFERENCE HELD JUNE 21-23, 1987. THE PROCEEDINGS CONTAIN PAPERS ON THE FOLLOWING TOPICS. SECTIONS INCLUDE: (1) BIOLOGICAL TREATMENT; (2) CONTAMINATED SOILS; (3) PHYSICAL-CHEMICAL TREATMENT; (4) RECYCLING/WASTE MINIMIZATION; (5) REMEDIAL ACTION; (6) REGULATORY ISSUES; (7) LEGAL ISSUES; (8) GROUNDWATER; (9) CONTROL TECHNOLOGY; (10) UNDERGROUND STORAGE TANKS; AND (11) SPECIAL TOPICS.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015119

PUBLICATION DATE: 86

TITLE: INNOVATIVE THERMAL PROCESSES FOR TREATING HAZARDOUS WASTES.

PERSONAL AUTHOR: FREEMAN, HARRY M.

DESCRIPTOR: *HAZARDOUS MATERIALS; *HAZARDOUS WASTES; *PERFORMANCE EVALUATION; *RESEARCH REPORTS; *TECHNOLOGY; *THERMAL PROCESSES; *WASTES; *WASTE TREATMENT; *POLLUTION CONTROL

DESCRIPTIVE NOTE: 125P. $25.00 SOFTCOVER

ABSTRACT: DISCUSSED IN THIS VOLUME ARE SEVERAL TECHNOLOGY AREAS IN WHICH WORK OVER THE PAST FEW YEARS HAS LED TO THE DEVELOPMENT OF PROCESSES THAT OFFER PROMISE AS NEW APPROACHES TO WASTE TREATMENT. CHAPTERS INCLUDE THE FOLLOWING: (1) WET OXIDATION; (2) MOLTEN GLASS; (3) MOLTEN SALT; (4) FLUIDIZED BED INCINERATION; (5) PYROLYSIS; (6) ELECTRIC REACTORS; (7) PLASMA SYSTEMS; (8) CHEMICAL TRANSFORMATION; AND (9) ADVANCED INCINERATORS.

AVAILABILITY: TECHNOMIC PUBLISHING COMPANY, INC., 851 NEW HOLLAND AVE., BOX 3535, LANCASTER, PA 17604

IRIS ACCESSION NUMBER: EW015132

PUBLICATION DATE: DEC 87

TITLE: FOCUS ON HAZARDOUS MATERIALS: ANHYDROUS AMMONIA.

DESCRIPTOR: *ACCIDENT PREVENTION; *AMMONIA; *HAZARDOUS MATERIALS; FIRE; CHEMICALS; *PUBLIC HEALTH; *SAFETY; *HEALTH HAZARDS; AIR POLLUTION CONTROL; WATER POLLUTION CONTROL; *TRANSPORTATION

DESCRIPTIVE NOTE: 27-28P.

ABSTRACT: DESCRIBED IS ANHYDROUS AMMONIA (NH3) AND HOW TO HANDLE IT TO PREVENT ACCIDENTS AND WHAT TO DO IN CASE OF ACCIDENTS.

AVAILABILITY: INDUSTRIAL FIRE WORLD; V2 N6

IRIS ACCESSION NUMBER: EW015154

PUBLICATION DATE: FEB 88

TITLE: CENTRALIZED MANAGEMENT OF SMALL TREATMENT PLANTS USING INSTRUMENTS AND REMOTE ALARMS.

PERSONAL AUTHOR: KUGELMAN, IRWIN J; CUMMINS, MICHAEL D.

DESCRIPTOR: *COMPUTER APPLICATIONS; *COSTS; *MANAGEMENT; *OPERATIONS (WASTEWATER); *RURAL AREAS; *SMALL FLOWS; *MONITORING; *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 72P. $5.32

ABSTRACT: THE OPERATION AND MAINTENANCE OF SMALL TREATMENT PLANTS AND ASSOCIATED LIFT STATIONS POSE A NUMBER OF UNIQUE AND DIFFICULT PROBLEMS TO THE AUTHORITY RESPONSIBLE FOR THEIR PERFORMANCE. DUE TO FINANCIAL AND MANPOWER LIMITATIONS, THESE FACILITIES MUST OPERATE UNATTENDED THE MAJORITY OF THE TIME. UNDETECTED MECHANICAL, ELECTRICAL, OR PROCESS FAILURES CAN RESULT IN GROSS POLLUTION (PERMIT VIOLATIONS), EQUIPMENT AND PROPERTY DAMAGE, AND PUBLIC COMPLAINTS. CONTINUOUS MONITORING OF CRITICAL EQUIPMENT AND PARAMETERS MAKE IT UNNECESSARY FOR OPERATORS TO VISIT THE REMOTE SITES ON A DAILY BASIS. EXCEPT WHEN CRITICAL ALARMS ARE IDENTIFIED, TRIPS TO EACH FACILITY CAN BE REDUCED TO PERIODIC (I.E., WEEKLY) OPERATIONS AND MAINTENANCE VISITS. THIS MODE OF OPERATION WILL REDUCE UNNECESSARY TRAVEL BETWEEN FACILITIES AS WELL AS RESULT IN INCREASED PRODUCTIVITY OR REDUCED STAFFING OF OPERATIONS AND MAINTENANCE CREWS. THE U.S. EPA AND THE COUNTY OF CUYAHOGA, OHIO, COOPERATED ON A FIELD EVALUATION OF THIS CONCEPT. SEVERAL LOW-COST FIELD PROVEN SENSORS WERE INSTALLED AT THE RICHMOND PARK TERRACE WASTEWATER TREATMENT PLANT. THESE WERE WIRED TO A PROGRAMMABLE LOGIC CONTROLLER (PLC) AND IN TURN TO A TELEMETERING SYSTEM. THE RESULTS OF THIS STUDY ARE PRESENTED IN THIS PAPER. INCLUDED ARE: SELECTION CRITERIA OF THE EQUIPMENT, INSTALLATION DETAILS, RECORD OF SERVICE, EFFECT ON PLANT PERFORMANCE AND ECONOMICS AND RECOMMENDATIONS FOR SYSTEM MODIFICATION.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015155

PUBLICATION DATE: FEB 87

TITLE: TREATMENT OF MUNICIPAL WASTEWATERS BY THE FLUIDIZED BED BIOREACTOR PROCESS.

PERSONAL AUTHOR: SCHEIBLE, O. KARL; GREY, GARY M.

DESCRIPTOR: *COSTS; *FLUIDIZED BED BIOREACTOR PROCESS; *NEW YORK; *OPERATIONS (WASTEWATER); *PERFORMANCE EVALUATION; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 201P. $13.06

ABSTRACT: A 2-YEAR, LARGE-SCALE PILOT INVESTIGATION WAS CONDUCTED AT THE CITY OF NEWBURGH WATER POLLUTION CONTROL PLANT, NEWBURGH, NY, TO DEMONSTRATE THE APPLICATION OF THE FLUIDIZED BED BIOREACTOR PROCESS TO THE TREATMENT OF MUNICIPAL WASTEWATERS. THE EXPERIMENTAL EFFORT INVESTIGATED THE ABILITY OF THE PROCESS TO TREAT MUNICIPAL WASTEWATER TO SECONDARY LEVELS. ADDITIONALLY, THE STUDIES EVALUATED THE STABILITY OF THE PROCESS UNDER HIGH HYDRAULIC PEAK LOADS TYPICAL OF COMBINED SEWER SYSTEMS. AN ORGANIC LOADING RATE OF 0.2 TO 0.3 GM BOD/GM VOLATILE SUSPENDED SOLIDS/DAY IS SUGGESTED IN ORDER TO MEET SECONDARY TREATMENT LEVELS. SUSPENDED SOLIDS REMOVALS WERE RELATIVELY LOW THROUGH THE REACTOR; THE RESULTS INDICATE THAT FINAL CLARIFICATION WOULD BE REQUIRED FOR THE PLANT TO MEET A 30 MG/L TSS LIMITATION. THE SYSTEM EXHIBITED GOOD STABILITY UNDER HIGH SHORT-TERM PEAK HYDRAULIC LOADINGS. MAXIMUM TO AVERAGE RAW FLOW RATIOS UP TO 5 COULD BE HANDLED WITHOUT BED WASHOUT. SPECIAL REACTOR MODIFICATIONS TO YIELD AN EXPANDED UPPER SECTION ALLOWED A RATIO AS HIGH AS 10 TO 1 WITHOUT LOSS OF THE BED.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

IRIS ACCESSION NUMBER: EW015157

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TITLE: DENSITY CURRENTS IN ACTIVATED SLUDGE SECONDARY CLARIFIERS.

PERSONAL AUTHOR: BENDER, JON H.

DESCRIPTOR: *ACTIVATED SLUDGE PROCESS; *DENSITY CURRENTS; *CONTROL PROCEDURES; *LITERATURE REVIEWS; *OPERATIONS (WASTEWATER); *MANAGEMENT; *SECONDARY CLARIFIERS; *WASTEWATER TREATMENT

DESCRIPTIVE NOTE: 72P. $5.32

ABSTRACT: DENSITY CURRENTS FORM IN ACTIVATED SLUDGE SECONDARY CLARIFIERS BECAUSE THE MIXED LIQUOR HAS A DENSITY GREATER THAN THE TREATED WASTEWATER IN THE CLARIFIER. THIS CAUSES THE MIXED LIQUOR TO PLUNGE TO THE BOTTOM OF THE CLARIFIER ESTABLISHING RELATIVELY HIGH VELOCITY CURRENTS WITHIN THE CLARIFIER THAT CAN TRANSPORT SETTLED SOLIDS OUT OF THE CLARIFIER IN THE EFFLUENT. THIS REPORT REVIEWS THE LITERATURE RELATIVE TO DENSITY CURRENT FORMATION, METHODS AVAILABLE FOR CONTROL AND THEIR EFFECTIVENESS IN MINIMIZING THE IMPACT OF DENSITY CURRENT ON ACTIVATED SLUDGE SECONDARY CLARIFIER EFFLUENT QUALITY. CONTROL PROCEDURES REVIEWED INCLUDE INLET STRUCTURES, WEIR LENGTH AND PLACEMENT AND IN-TANK BAFFLES.

AVAILABILITY: ENVIRONMENTAL QUALITY INSTRUCTIONAL RESOURCES CENTER, 1200 CHAMBERS ROAD, ROOM 310, COLUMBUS, OH 43212

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*ENVIRONMENTAL IMPACT (20) EW013182 EW014919 EW014931 EW014934 EW014935 EW014947 EW014951 EW014955 EW014956 EW014977 EW014979 EW014980 EW014992 EW015017 EW015022 EW015033 EW015034 EW015047 EW015048 EW015063

ENVIRONMENTAL IMPACT (1) EW015057

*ENVIRONMENTAL MANAGEMENT (1) EW014995

*ENVIRONMENTAL PLANNING (1) EW014995

*ENVIRONMENTAL PROFESSIONALS (1) EW014996

*ENVIRONMENTAL PROTECTION (1) EW014846

*ENVIRONMENTAL QUALITY (3) EW014896 EW014958 EW015047

ENVIRONMENTAL TECHNICIANS (1) EW015042

*EQUIPMENT (18) EW014895 EW014900 EW014965 EW014978 EW014993 EW014999 EW015001 EW015002 EW015004 EW015007 EW015008 EW015009 EW015014 EW015015 EW015041

EW015054 EW015066 EW015073
EQUIPMENT (3) EW014963 EW015003 EW015074
*EQUIPMENT EVALUATION (1) EW014895
*EQUIPMENT MANUFACTURERS (1) EW015005
*EQUIPMENT SELECTION (1) EW014900
*ESTUARIES (1) EW014895
*EUROPE (2) EW014962 EW014979
EUROPE (1) EW015079
*EXPERIMENTAL DESIGN (1) EW015032
*EXPERT SYSTEMS (1) EW014872
*FACILITIES (17) EW013172 EW014950 EW014961 EW014964 EW014965 EW014981 EW014982
EW014999 EW015004 EW015007 EW015008 EW015009 EW015014 EW015015 EW015041
EW015051 EW015071
FACILITIES (2) EW013773 EW015003
*FACILITY PLANS (1) EW015069
*FAILURE RATES (1) EW013773
*FATE ASSESSMENT (1) EW014931
*FEDERAL PROGRAMS (1) EW015098
*FEDERAL ROLE (2) EW015048 EW015098
*FERTILIZER (1) EW015052
*FIELD METHODS (1) EW014959
FIELD TESTS (1) EW015010
*FILTERS (1) EW014942
*FILTRATION (3) EW015073 EW015089 EW015090
*FINAL REPORTS (1) EW014989
FIRE (1) EW015132
FIRES (1) EW015069
*FISH (1) EW014956
FLARE GAS CONTROL (1) EW015074
*FLOW LOSS (1) EW015043
*FLUID FLOW (1) EW015043
*FLUIDIZED BED BIOREACTOR PROCESS (1) EW015155
FOOD PROCESSING INDUSTRY (1) EW014955

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| *FORECASTING TECHNIQUES | (1) | EW013773 |
| FORESTS | (1) | EW015047 |
| *FRESHWATER ECOSYSTEMS | (1) | EW014937 |
| *FUEL | (1) | EW015062 |
| FUELS | (1) | EW015049 |
| *GAC | (1) | EW014942 |
| GASES | (1) | EW015028 |
| *GENETICALLY ENGINEERED MICROORGANISMS | (1) | EW015055 |
| *GEOLOGY | (2) | EW014976 EW015093 |
| *GOVERNANCE | (1) | EW015038 |
| *GOVERNMENT ROLE | (2) | EW015047 EW015099 |
| *GRANULAR ACTIVATED CARBON | (1) | EW014942 |
| *GREAT LAKES | (7) | EW013162 EW014868 EW014956 EW014986 EW014998 EW015038 EW015093 |
| *GREY WATER SYSTEMS | (1) | EW013774 |
| GREYWATER SYSTEMS | (1) | EW013775 |
| *GROUNDWATER | (8) | EW014851 EW014925 EW014994 EW014998 EW015053 EW015077 EW015085 EW015118 |
| *GROUNDWATER RECHARGE | (1) | EW015085 |
| *GUIDANCE MANUALS | (1) | EW014957 |
| GUIDANCE MANUALS | (1) | EW014896 |
| *GUIDEBOOKS | (1) | EW013171 |
| *GUIDELINES | (4) | EW014978 EW014988 EW014989 EW015079 |
| *GUIDES | (3) | EW015011 EW015066 EW015074 |
| *HALOGENATED ORGANIC COMPOUNDS | (1) | EW014938 |
| *HALOGENS | (1) | EW015008 |
| *HANDBOOKS | (3) | EW014993 EW015070 EW015077 |
| *HAZARD ANALYSIS | (1) | EW015069 |
| *HAZARD ASSESSMENT | (2) | EW014931 EW014932 |
| *HAZARD COMMUNICATIONS | (1) | EW014930 |
| *HAZARD IDENTIFICATION | (1) | EW015037 |
| *HAZARDOUS MATERIALS | (31) | EW013157 EW013171 EW013182 EW014911 EW014923 EW014924 EW014925 EW014930 EW014963 EW014978 EW014988 EW014989 EW014997 EW015025 EW015030 EW015033 EW015036 EW015037 EW015039 EW015042 EW015044 EW015060 EW015066 EW015067 EW015072 EW015075 EW015077 EW015078 EW015099 EW015119 EW015132 |

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*HAZARDOUS WASTES (24) EW013156 EW013173 EW013182 EW014824 EW014854 EW014925 EW014980 EW014981 EW014982 EW014983 EW014988 EW014989 EW015035 EW015050 EW015051 EW015063 EW015066 EW015067 EW015068 EW015072 EW015076 EW015077 EW015118 EW015119

*HAZARD PREVENTION (1) EW015071

*HAZ PRO '86 (1) EW015067

*HEALTH EFFECTS (1) EW015023

*HEALTH HAZARDS (2) EW013157 EW015132

*HEALTH PERSONNEL (1) EW014910

*HEATING VALUE (1) EW015062

*HEAVY METALS (2) EW015034 EW015057

*HIGHER EDUCATION (1) EW015075

*HISTORY (1) EW015093

*HOME STUDY (2) EW015020 EW015021

*HSWA (1) EW013156

*HYDROLOGY (2) EW014994 EW015051

INCENTIVES (1) EW014981

*INCINERATION (5) EW014945 EW014949 EW015028 EW015070 EW015074

INCINERATION (1) EW015072

*INCINERATORS (4) EW013772 EW014778 EW014945 EW015001

*INDEPENDENT LEARNING (2) EW014972 EW014973

*INDEPENDENT STUDY (5) EW014974 EW015020 EW015021 EW015058 EW015059

*INDEXES (2) EW013156 EW015025

INDEXES (8) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106 EW015016

*INDOOR AIR POLLUTION (1) EW015018

*INDUSTRIAL MATERIALS (1) EW015020

*INDUSTRIAL POLLUTION (1) EW014951

*INDUSTRIAL WASTES (14) EW014761 EW014824 EW014923 EW014924 EW014925 EW014955 EW014967 EW014973 EW015020 EW015035 EW015048 EW015050 EW015055 EW015064

*INDUSTRIAL WASTEWATER (1) EW014967

*INDUSTRIAL WATER TREATMENT (1) EW015010

*INDUSTRY (3) EW015042 EW015046 EW015070

INDUSTRY (1) EW015048
*INDUSTRY ROLE (1) EW015047
*INFORMATION DISCLOSURE (1) EW015011
*INFORMATION DISSEMINATION (1) EW015025
INFORMATION DISSEMINATION (8) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106 EW015016
*INFORMATION RESOURCES (1) EW014963
*INFORMATION SOURCES (3) EW014951 EW015077 EW015081
*INFRARED SPECTRA (1) EW014872
*INNOVATIVE TECHNOLOGY (1) EW014961
*INORGANIC NUTRIENTS (1) EW015073
*INSPECTION (3) EW014861 EW015071 EW015076
*INSTITUTIONS (1) EW015038
*INSTRUCTION (1) EW015083
*INSTRUCTIONAL MATERIALS (19) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106 EW014944 EW014972 EW014973 EW014974 EW014986 EW015016 EW015021 EW015025 EW015032 EW015058 EW015059 EW015083
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ION EXCHANGE RESINS (1) EW015010
*IONIZING RADIATION (1) EW015033
IRON INDUSTRY (1) EW014955
*ISSUES (1) EW014930
*LABORATORY ANALYSIS (1) EW014927
*LABORATORY PROCEDURES (5) EW013157 EW014872 EW014924 EW014959 EW015100
LABORATORY PROCEDURES (2) EW015059 EW015079
*LABORATORY TECHNIQUES (1) EW015100
*LAKES (5) EW014935 EW014956 EW014986 EW014998 EW015038
*LAND APPLICATION (1) EW015052
LAND DEVELOPMENT (1) EW014920
*LANDFILLS (2) EW014980 EW015051
*LAND USE (3) EW014868 EW014920 EW014999
LAND USE (1) EW015047
LASERS (1) EW015033

*LEGISLATION (5) EW013173 EW014824 EW014846 EW015045 EW015046
LEGISLATION (3) EW013171 EW014988 EW014989
*LIABILITIES (2) EW014930 EW015063
LIABILITIES (1) EW014981
*LIABILITY (2) EW015050 EW015051
LIQUIDS (1) EW015028
*LITERATURE REVIEWS (5) EW014953 EW014957 EW014968 EW015004 EW015157
*LITIGATION (1) EW015045
*LOCAL DEVELOPMENT (1) EW014995
*LOCAL GOVERNMENTS (1) EW015099
*LOW-PRESSURE PIPE (1) EW014952
*MAINTENANCE (4) EW013772 EW014861 EW014972 EW014974
MAINTENANCE (3) EW015020 EW015058 EW015059
*MAINTENANCE PROGRAMS (1) EW014940
*MAINTENANCE SYSTEMS (1) EW015088
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EW014990 EW014991 EW014992 EW014995 EW014998 EW015038 EW015051 EW015063
EW015067 EW015072 EW015075 EW015076 EW015081 EW015086 EW015094 EW015099
EW015154 EW015157
MANAGEMENT (2) EW014963 EW015059
*MANUALS (4) EW014959 EW015007 EW015008 EW015009
*MANURE MANAGEMENT (1) EW014853
*MARKETING (3) EW014950 EW015005 EW015041
*MASSACHUSETTS (1) EW014921
*MATERIAL DEVELOPMENT (1) EW015083
*MATERIALS HANDLING (2) EW013173 EW015037
MATERIALS HANDLING (1) EW015039
MATERIAL STORAGE (1) EW015039
*MEASUREMENT (2) EW014922 EW014935
*MERCURY (1) EW015034
*METALS (3) EW014973 EW015061 EW015064
METALS (2) EW015001 EW015057
METHANE (1) EW014964

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| *MICHIGAN | (3) | EW014851 EW014976 EW014998 |
| *MICROBIOLOGY | (1) | EW015055 |
| MICROBIOLOGY | (1) | EW015049 |
| *MINING | (1) | EW015063 |
| *MODELS | (3) | EW013773 EW015014 EW015015 |
| *MONITORING | (16) | EW014761 EW014851 EW014861 EW014895 EW014896 EW014922 EW014925 EW014936 EW014944 EW014958 EW014959 EW015033 EW015066 EW015071 EW015079 EW015154 |
| MONITORING | (2) | EW014957 EW015020 |
| *MONITORING SYSTEMS | (1) | EW014895 |
| MONITORING SYSTEMS | (1) | EW014975 |
| *MULTIPLE HEARTH INCINERATORS | (1) | EW015001 |
| *MUNICIPAL WASTES | (2) | EW014967 EW015049 |
| *MUNICIPAL WASTEWATER | (1) | EW014967 |
| *NATIONAL STRATEGIES | (1) | EW014989 |
| NATIONAL STRATEGIES | (1) | EW014988 |
| *NATURAL RESOURCES | (2) | EW013162 EW015053 |
| *NEEDS ASSESSMENT | (3) | EW015038 EW015040 EW015083 |
| *NETWORKS | (1) | EW015081 |
| *NEW JERSEY | (2) | EW014946 EW014947 |
| *NEWSLETTERS | (1) | EW014963 |
| *NEW YORK | (1) | EW015155 |
| NITROGEN REMOVAL | (2) | EW015021 EW015021 |
| *NONPOINT SOURCE POLLUTION | (1) | EW014853 |
| *NUCLEAR RADIATION | (1) | EW015033 |
| *OASIS | (1) | EW014861 |
| *OCCUPATIONAL HEALTH | (2) | EW015042 EW015055 |
| *OCCUPATIONAL INFORMATION | (1) | EW014996 |
| *OCCUPATIONAL SAFETY | (3) | EW014978 EW015037 EW015042 |
| *OCCUPATIONS | (1) | EW014996 |
| OCEANOGRAPHY | (1) | EW015057 |
| *OCEANS | (3) | EW014895 EW014896 EW014957 |
| *ODOR CONTROL | (2) | EW015007 EW015070 |

*ODORS (3) EW014943 EW015007 EW015070
*OHIO (1) EW015053
OIL (1) EW014949
*OIL CLEAN UP (1) EW014977
*OIL DISPERSANTS (1) EW014977
*OIL SEPARATION (1) EW015073
*OIL SPILLS (1) EW014977
*OLEUM (1) EW015044
*ONSITE DISPOSAL (2) EW013774 EW013775
ONSITE DISPOSAL (1) EW013773
*ONSITE TREATMENT (1) EW013172
*ONSITE WASTEWATER DISPOSAL (1) EW015040
*ONSITE WASTEWATER TREATMENT (4) EW013773 EW013774 EW013775 EW014953
*OPERATIONS (SOLID WASTES) (1) EW014990
*OPERATIONS (WASTES) (1) EW014967
*OPERATIONS (WASTEWATER) (37) EW013772 EW013774 EW013775 EW014850 EW014900 EW014921 EW014961 EW014964 EW014965 EW014966 EW014967 EW014968 EW014973 EW014990 EW014993 EW014999 EW015001 EW015002 EW015003 EW015004 EW015007 EW015008 EW015009 EW015014 EW015015 EW015021 EW015041 EW015052 EW015054 EW015056 EW015058 EW015064 EW015073 EW015081 EW015154 EW015155 EW015157
*OPERATIONS (WATER) (15) EW014938 EW014939 EW014940 EW014941 EW014942 EW014943 EW014972 EW014974 EW015010 EW015059 EW015081 EW015085 EW015088 EW015089 EW015090
OPERATIONS (WATER) (1) EW015086
*OPERATIONS (WATER) *WATER TREATMENT (1) EW014760
*OPERATOR TRAINING (2) EW015058 EW015059
*ORGANIC WASTES (1) EW015062
*ORGANIZATIONAL CHANGE (1) EW014910
*ORGANIZATIONAL THEORIES (1) EW014910
*ORGANIZATIONS (1) EW013162
*OZONE (3) EW015008 EW015017 EW015056
*PACIFIC REGION (1) EW014995
*PAPER (1) EW014987
PAPER INDUSTRY (1) EW014955
*PCBS (3) EW014919 EW014949 EW015030
*PENNSYLVANIA (1) EW014778

*PERFORMANCE EVALUATION (33) EW013772 EW013773 EW013774 EW013775 EW014854 EW014895 EW014900 EW014924 EW014941 EW014942 EW014946 EW014949 EW014952 EW014953 EW014961 EW014965 EW014966 EW014968 EW015002 EW015003 EW015004 EW015007 EW015008 EW015009 EW015014 EW015015 EW015035 EW015054 EW015056 EW015061 EW015119 EW015154 EW015155

*PERFORMANCE EVALUATIONS (2) EW014999 EW015001

*PERMITS (2) EW015071 EW015076

*PERSONNEL (2) EW013173 EW015098

*PESTICIDE APPLICATION (2) EW014926 EW014929

*PESTICIDE APPLICATIONS (2) EW014928 EW015046

*PESTICIDE FORMULATIONS (2) EW014926 EW014928

*PESTICIDES (5) EW014926 EW014927 EW014928 EW014929 EW015046

PETROLEUM INDUSTRY (1) EW014955

*PHOSPHORUS (2) EW014968 EW015009

*PHOSPHORUS REMOVAL (2) EW014968 EW015009

PHOSPHORUS REMOVAL (1) EW015021

*PHYSICAL PROPERTIES (1) EW015044

*PHYSICAL TREATMENT (1) EW015068

PHYSICS (1) EW015023

*PIPES (1) EW015043

*PLANNING (18) EW014846 EW014861 EW014910 EW014911 EW014940 EW014946 EW014947 EW014987 EW014991 EW014992 EW014995 EW014997 EW015038 EW015067 EW015069 EW015081 EW015083 EW015099

PLANNING (1) EW013171

*PLASTIC BLAST MEDIA (1) EW015061

*PLASTICS (1) EW015061

PLASTICS (1) EW015028

*POLICIES (21) EW014846 EW014920 EW014946 EW014947 EW014951 EW014979 EW014980 EW014981 EW014982 EW014983 EW014988 EW014989 EW015017 EW015018 EW015030 EW015034 EW015038 EW015045 EW015047 EW015048 EW015055

*POLLUTION (7) EW014944 EW014951 EW015023 EW015030 EW015033 EW015034 EW015067

POLLUTION (1) EW015048

*POLLUTION CONTROL (28) EW014824 EW014951 EW014977 EW014979 EW014980 EW014992 EW015017 EW015018 EW015022 EW015027 EW015029 EW015030 EW015033 EW015034 EW015047 EW015050 EW015051 EW015060 EW015063 EW015064 EW015066 EW015067 EW015068

EW015072 EW015077 EW015099 EW015118 EW015119
POLLUTION CONTROL (2) EW014963 EW015048
*POLLUTION LEVELS (1) EW014944
*POLLUTION REDUCTION (1) EW015061
*POND SYSTEMS (1) EW014966
*POSTSECONDARY EDUCATION (9) EW014972 EW014973 EW014974 EW015020 EW015021 EW015025 EW015058 EW015059 EW015083
POSTSECONDARY EDUCATION (9) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106 EW014872 EW015016
*PRESSURE SEWAGE PIPES (1) EW015043
*PREVENTIVE MAINTENANCE (1) EW014861
*PROCESS ANALYSIS (1) EW014850

*PRODUCT REDESIGN (1) EW015029
*PROGRAM DESCRIPTIONS (1) EW014951
*PROGRAM DEVELOPMENT (1) EW014911
*PROGRAM EVALUATION (1) EW015069
*PROGRAM NEEDS (1) EW015042
*PROGRESS REPORTS (1) EW014961
*PROJECT DESCRIPTIONS (1) EW014961
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*PUBLIC PARTICIPATION (1) EW014980
*PUBLIC SAFETY (1) EW015078
*PVC PIPES (1) EW015043
*QUALITY ASSURANCE (2) EW014922 EW014936
*QUALITY CONTROL (3) EW014924 EW014959 EW015100
*RADIATION (1) EW015033
*RADIATION EFFECTS (1) EW015023
*RADON (1) EW015018
RATES (1) EW015086
*RCRA (1) EW013156

*RECESSED FILTER PRESSES (1) EW014900
*RECOMMENDATIONS (6) EW014896 EW014953 EW014958 EW014962 EW014986 EW015048
*RECORDKEEPING (4) EW013173 EW014861 EW014911 EW015071
RECORDKEEPING (1) EW015030
*RECYCLING (8) EW014946 EW014947 EW014955 EW014980 EW014987 EW015041 EW015050 EW015052
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*REGRESSION ANALYSIS (1) EW015100
*REGULATIONS (25) EW013156 EW013173 EW014824 EW014854 EW014911 EW014930 EW014959 EW014981 EW014997 EW015017 EW015030 EW015034 EW015036 EW015037 EW015045 EW015046 EW015048 EW015050 EW015055 EW015064 EW015071 EW015076 EW015078 EW015099 EW015118
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*REMEDIAL SITE INVESTIGATION (1) EW014924
*REMODELING (1) EW015036
*REPLACEMENT PROGRAMS (1) EW014940
*REPORTING (2) EW014861 EW015011
REPORTING (1) EW015059
*RESEARCH (3) EW014919 EW014944 EW015049
RESEARCH (2) EW014963 EW015047
*RESEARCH NEEDS (1) EW015003
*RESEARCH REPORTS (14) EW014934 EW014952 EW014980 EW015003 EW015004 EW015022 EW015023 EW015024 EW015035 EW015038 EW015055 EW015057 EW015118 EW015119
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*RESOURCE MATERIALS (1) EW014996
*RESOURCE RECOVERY (19) EW014921 EW014946 EW014947 EW014948 EW014950 EW014955 EW014980 EW014983 EW014987 EW014990 EW015005 EW015027 EW015028 EW015029 EW015035 EW015041 EW015049 EW015052 EW015062
*RESOURCE USE (1) EW014998
REVERSE OSMOSIS (1) EW015010
*RIGHT-TO-KNOW (1) EW015011
*RISK ASSESSMENT (6) EW013774 EW014778 EW014923 EW015046 EW015067 EW015079
*RISK REDUCTION (1) EW014950
*RIVERS (1) EW014976

*RURAL AREAS (6) EW014962 EW014974 EW015040 EW015085 EW015088 EW015154

*RURAL CLEAN WATER PROGRAM (1) EW014853

*SAFETY (12) EW013157 EW013173 EW014911 EW014930 EW014978 EW014997 EW015034 EW015037 EW015042 EW015044 EW015055 EW015132

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*SAFETY EDUCATION (1) EW015042

*SAMPLING (8) EW014923 EW014924 EW014936 EW014937 EW014944 EW014959 EW015066 EW015079

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SAMPLING TECHNIQUES (1) EW015010

SAND FILTERS (1) EW013775

*SAND FILTRATION (2) EW015089 EW015090

*SANITATION (4) EW014962 EW015081 EW015083 EW015087

*SARA TITLE III (1) EW015011

*SCHREIBER AERATION SYSTEM (1) EW015054

*SCIENCES (1) EW015032

*SCREENING TOOLS (1) EW014872

*SEA WATER (1) EW015057

*SECONDARY CLARIFIERS (2) EW015004 EW015157

*SECONDARY WASTEWATER TREATMENT (1) EW015056

*SEPTIC TANKS (2) EW013774 EW014953

*SEWAGE (1) EW015070

*SEWAGE SLUDGE (1) EW015052

*SEWERS (1) EW015043

*SLUDGE (7) EW014921 EW015001 EW015025 EW015041 EW015052 EW015057 EW015060

SLUDGE (10) EW013772 EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106 EW014949 EW015016

*SLUDGE DESTRUCTION (1) EW015002

*SLUDGE DISPOSAL (1) EW015060

*SLUDGE HANDLING (1) EW015009

*SLUDGE INCINERATORS (1) EW013772

*SLUDGE STABILIZATION (1) EW015002

*SMALL FLOWS (1) EW015154

*SMALL SYSTEMS (1) EW014974

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|---|---|---|
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| *SOIL | (1) | EW015094 |
| *SOIL ABSORPTION | (1) | EW013773 |
| SOILS | (2) | EW013773 EW014949 |
| SOLIDS | (1) | EW015028 |
| SOLIDS HANDLING | (1) | EW015021 |
| *SOLIDS REMOVAL | (1) | EW015073 |
| *SOLID WASTES | (14) | EW013156 EW014778 EW014923 EW014925 EW014945 EW014947 EW014962<br>EW014990 EW014991 EW014992 EW015005 EW015070 EW015076 EW015077 |
| *SOLID WASTE TREATMENT | (1) | EW014990 |
| *SOLVENT RECOVERY | (1) | EW014948 |
| *SOLVENTS | (1) | EW014948 |
| *SOUTH PACIFIC | (1) | EW014989 |
| SPILL CLEANUP | (1) | EW015030 |
| *SPILLS | (1) | EW014978 |
| SPILLS | (2) | EW014963 EW015069 |
| *SPRAY ANALYZERS | (1) | EW014927 |
| *SPRAYING TECHNIQUES | (1) | EW014926 |
| *SPRAY TECHNIQUES | (1) | EW014928 |
| *SPREADSHEETS | (2) | EW015062 EW015100 |
| *STAFF DEVELOPMENT | (1) | EW014910 |
| *STANDARDS | (3) | EW014930 EW015030 EW015077 |
| STANDARDS | (1) | EW015079 |
| *STATE-OF-THE-ART REVIEWS | (1) | EW014968 |
| STATE PROGRAMS | (1) | EW015011 |
| *STATE RECYCLING PROGRAMS | (1) | EW015005 |
| *STATE RESPONSES | (1) | EW014981 |
| *STATE ROLE | (1) | EW014981 |
| *STATISTICAL ANALYSIS | (1) | EW015100 |
| *STATISTICAL METHODS | (1) | EW014944 |
| *STATISTICS | (2) | EW015032 EW015063 |
| *STORAGE FACILITIES | (1) | EW015071 |
| *STORAGE TANKS | (2) | EW015067 EW015118 |

*STREAMS (1) EW014935
*SUMMARY DATA (1) EW014957
*SUPERFUND (1) EW015011
*SURVEY POSITIONING METHODS (1) EW014895
*SURVEYS (8) EW014868 EW014941 EW014958 EW014980 EW014982 EW015038 EW015040 EW015042
*SYSTEM SELECTION (1) EW014895
*TASTES (1) EW014943
*TECHNOLOGY (34) EW013182 EW013775 EW014854 EW014926 EW014928 EW014932 EW014946 EW014948 EW014952 EW014961 EW014962 EW014964 EW014965 EW014967 EW014999 EW015003 EW015007 EW015008 EW015009 EW015025 EW015027 EW015028 EW015029 EW015049 EW015051 EW015054 EW015060 EW015061 EW015068 EW015070 EW015072 EW015074 EW015075 EW015119
TECHNOLOGY (8) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106 EW015016
*TENNA (1) EW014966
*TENNESSEE (1) EW014982
*TESTIMONY (1) EW014778
*TESTING (4) EW014923 EW014924 EW014925 EW014934
*TEST METHODS (1) EW014932
*TEXTILE INDUSTRY (1) EW014955
*THERMAL PROCESSES (1) EW015119
*THERMAL TREATMENT (2) EW015002 EW015068
*THMS (2) EW014938 EW014941
*TISSUE CHEMISTRY (1) EW014957
*TOBACCO SMOKE (1) EW015018
*TOILETS (1) EW013774
*TOX (1) EW014941
*TOXIC MATERIALS (1) EW014934
*TOXICOLOGY (1) EW014933
*TOXIC SUBSTANCES (14) EW014778 EW014919 EW014949 EW014956 EW014986 EW014997 EW015025 EW015036 EW015037 EW015046 EW015067 EW015072 EW015075 EW015118
TOXIC SUBSTANCES (1) EW015069
*TOXIC WASTES (2) EW015035 EW015050
*TRADE ASSOCIATIONS (1) EW015005
*TRAINING (16) EW014850 EW014911 EW014972 EW014973 EW014974 EW014978 EW014995

EW015020 EW015021 EW015042 EW015067 EW015069 EW015071 EW015075 EW015083
EW015098

TRAINING (2) EW014872 EW015072

*TRANSPORTATION (3) EW015075 EW015078 EW015132

TRANSPORTATION (2) EW015039 EW015072

*TREATMENT TECHNIQUES (2) EW015072 EW015118

*TREATMENT TECHNOLOGY (1) EW015068

*TRENDS (2) EW014946 EW015040

*TRIHALOMETHANES (1) EW014938

*TROUBLESHOOTING (2) EW015014 EW015015

TROUBLESHOOTING (2) EW015058 EW015059

*TWO-ZONE PROCESS (1) EW014999

*ULTRAVIOLET RADIATION (3) EW015008 EW015033 EW015056

UNITED KINGDOM (1) EW014979

*UNITED STATES (2) EW014868 EW014951

*UNIT OPERATIONS (1) EW015073

*UNIT PROCESSES (3) EW014993 EW015058 EW015059

UNIT PROCESSES (1) EW015003

*UNSEWERED HOUSES (1) EW015040

*USEPA (6) EW014959 EW014961 EW015017 EW015046 EW015071 EW015076

USEPA (1) EW015030

*USER MANUALS (1) EW015014

*VIDEOTAPES (1) EW014997

VIDEOTAPES (1) EW014956

*VOCABULARY (1) EW015039

*VOLATILE ORGANIC COMPOUNDS (1) EW014948

*WASTE ANALYSIS (1) EW015071

*WASTE COMBUSTION (1) EW015074

*WASTE DISPOSAL (39) EW013157 EW013172 EW013173 EW013182 EW013772 EW013774 EW013775
EW014778 EW014824 EW014854 EW014925 EW014945 EW014946 EW014947 EW014949
EW014950 EW014962 EW014980 EW014981 EW014982 EW014983 EW014997 EW015001
EW015020 EW015025 EW015027 EW015028 EW015033 EW015035 EW015041 EW015049
EW015051 EW015052 EW015057 EW015060 EW015063 EW015067 EW015072 EW015075

WASTE DISPOSAL (13) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106
EW014955 EW014963 EW014988 EW014989 EW015016 EW015039

*WASTE FACILITIES (1) EW014980

*WASTE GENERATORS (1) EW014824

*WASTE HANDLING (1) EW014997

*WASTE MANAGEMENT (3) EW014824 EW014989 EW015051

WASTE MANAGEMENT (1) EW014988

*WASTE PROCESSING (1) EW014950

*WASTE RECOVERY (1) EW015049

*WASTE REDUCTION (11) EW014824 EW014955 EW014980 EW014983 EW014987 EW015005 EW015027
EW015029 EW015035 EW015050 EW015067

WASTE REDUCTION (2) EW014988 EW014989

*WASTES (7) EW014854 EW015027 EW015029 EW015035 EW015066 EW015068 EW015119

WASTES (1) EW015074

*WASTE SITES (3) EW014981 EW014982 EW014983

*WASTE STORAGE (3) EW014854 EW015075 EW015118

WASTE STORAGE (2) EW014963 EW015072

*WASTE TRANSPORT (1) EW014854

WASTE TRANSPORTATION (1) EW014963

*WASTE TREATMENT (17) EW013173 EW013182 EW014923 EW014925 EW014967 EW015020 EW015027
EW015028 EW015035 EW015049 EW015050 EW015060 EW015067 EW015068 EW015074
EW015075 EW015119

*WASTE UTILIZATION (1) EW014947

WASTE UTILIZATION (1) EW014946

*WASTEWATER (4) EW014955 EW014991 EW015016 EW015076

*WASTEWATER COLLECTION (4) EW014861 EW014952 EW015007 EW015043

*WASTEWATER TREATMENT (59) EW013172 EW013772 EW013773 EW013774 EW013775 EW014100 EW014101
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EW014952 EW014953 EW014955 EW014961 EW014962 EW014964 EW014965 EW014966
EW014967 EW014968 EW014973 EW014990 EW014993 EW014999 EW015002 EW015003
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EW015057 EW015058 EW015060 EW015064 EW015070 EW015073 EW015081 EW015083
EW015087 EW015154 EW015155 EW015157

WASTEWATER TREATMENT (2) EW015001 EW015020

*WATER (2) EW014922 EW015025

WATER (8) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106
EW015016

*WATER DISTRIBUTION (3) EW014940 EW014972 EW014998

*WATERFRONTS (1) EW014868

*WATER MAINS (1) EW014940

*WATER MANAGEMENT (1) EW015094

*WATER POLLUTION (3) EW014761 EW015022 EW015025

WATER POLLUTION (9) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106
EW015016 EW015069

*WATER POLLUTION CONTROL (22) EW014761 EW014851 EW014853 EW014868 EW014896 EW014956 EW014957
EW014958 EW014977 EW014986 EW014990 EW014991 EW014992 EW014994 EW015003
EW015040 EW015048 EW015051 EW015075 EW015077 EW015081 EW015093

WATER POLLUTION CONTROL (3) EW015064 EW015072 EW015132

*WATER QUALITY (51) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106
EW014851 EW014853 EW014895 EW014896 EW014931 EW014935 EW014936 EW014937
EW014938 EW014943 EW014953 EW014956 EW014957 EW014958 EW014959 EW014973
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EW014998 EW015003 EW015016 EW015017 EW015022 EW015025 EW015038 EW015045
EW015053 EW015056 EW015067 EW015075 EW015076 EW015079 EW015081 EW015087
EW015090 EW015093 EW015094 EW015118

WATER QUALITY (1) EW014972

*WATER QUALITY ACT OF 1987 (1) EW015045

*WATER RATES (1) EW015086

*WATER RESOURCES (20) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106
EW014851 EW014956 EW014976 EW014994 EW014998 EW015003 EW015016 EW015025
EW015038 EW015053 EW015085 EW015087 EW015093

WATER RESOURCES (3) EW014920 EW014975 EW015022

*WATER SUPPLY (9) EW014976 EW014994 EW015040 EW015053 EW015083 EW015085 EW015086
EW015087 EW015088

WATER SUPPLY (1) EW014920

*WATER TREATMENT (26) EW014100 EW014101 EW014102 EW014103 EW014104 EW014105 EW014106
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EW015010 EW015016 EW015025 EW015059 EW015079 EW015081 EW015083 EW015087
EW015088 EW015089 EW015090

*WATER USE (1) EW014998

WEST GERMANY (1) EW014979

*WETLANDS (1) EW014920

*WET SCRUBBING (1) EW015070

WILDLIFE (1) EW015047

*WORKER EXPOSURE (1) EW015055

*WORKSHOPS (1) EW015098

*WORLD PROBLEMS (6) EW014920 EW014988 EW014989 EW015047 EW015079 EW015081

WORLD PROBLEMS (1) EW015003

*301 (H) MONITORING PROGRAMS (1) EW014895

*301(H) PROGRAMS (2) EW014958 EW014959